

GenCore version 5.1.6
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OM nucleic - protein search, using frame_plus_n2p model

Run on: February 25, 2004, 01:27:07 ; Search time 17 Seconds
(without alignments)
2095.407 Million cell updates/sec

Title: US-09-873-224A-147
Sequence score: 115
Sequence: 1 atgagcacattcttaaac.....aaatgaccccgccgcaggga 345

Scoring table:
Xgapop 60.0 , Xgapext 60.0
Ygapop 60.0 , Ygapext 60.0
Fgapop 6.0 , Fgapext 7.0
Delop 6.0 , Delext 7.0

Searched: 389414 seqs, 51625971 residues

Word size: 1

Total number of hits satisfying chosen parameters: 663654

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Listing first 45 summaries

Command line parameters:

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-Q=/cgn2_1/USPTO.spool/p/US09873224/runat 24022004 132746 10614/app.query.fasta_1.519
-DB=Issued Patents AA -QFMT=fastan -SUFFIX=rai -MINMATCH=0.1 -LOOPCL=0
-LOOPTXT=0 -UNITS=bits -START=1 -END=1 -MATRIX=oligo -TRANS=human40.cdi
-LIST=45 -DOALIGN=200 -THR_SCORE=quality -THR_MIN=1 -ALIGN=15 -MODE=LOCAL
-OUTFMT=ptc -NORM=ext -HRAFSIZE=500 -MINLEN=0 -MAXLEN=2000000000
-USER=US09873224 @CGN 1 1 27 @runat 24022004 132746 10614 -NCPU=6 -ICPU=3
-NO_WMAP -LARGQUERY -NEG_SCORES=0 -WAIT -DSPBLOCK=100 -LONGLOG
-DEV_TIMEOUT=120 -WARN_TIMEOUT=30 -THREADS=1 -XGAPOP=60 -XGAPEXT=60 -FGAPOP=6
-FGAEXT=7 -YGAPOP=60 -YGAPEXT=60 -DELOP=6 -DELEXT=7

Database : Issued Patents AA:

- 1: /cgn2_6/ptodata/2/iaa/5A.COMB.pep.*
- 2: /cgn2_6/ptodata/2/iaa/5B.COMB.pep.*
- 3: /cgn2_6/ptodata/2/iaa/6A.COMB.pep.*
- 4: /cgn2_6/ptodata/2/iaa/6B.COMB.pep.*
- 5: /cgn2_6/ptodata/2/iaa/PTCUS.COMB.pep.*
- 6: /cgn2_6/ptodata/2/iaa/backfiles.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	98	85.2	115	3	US-08-836-075A-50
2	83	72.2	100	4	US-08-635-886C-233
3	83	72.2	100	4	US-08-974-690C-233
4	44	38.3	124	1	US-08-244-116B-15
5	44	38.3	191	2	US-08-290-665A-187
6	44	38.3	191	2	US-08-290-665A-188
7	44	38.3	191	2	US-08-290-665A-189
8	44	38.3	191	2	US-08-290-665A-190
9	44	38.3	191	2	US-08-290-665A-191
10	44	38.3	191	2	US-08-290-665A-192
11	44	38.3	191	2	US-08-290-665A-193
12	44	38.3	191	2	US-08-290-665A-195

13	44	38.3	191	2	US-08-290-665A-196
14	44	38.3	191	2	US-08-290-665A-197
15	44	38.3	191	5	PCT-US95-10398-187
16	44	38.3	191	5	PCT-US95-10398-188
17	44	38.3	191	5	PCT-US95-10398-189
18	44	38.3	191	5	PCT-US95-10398-190
19	44	38.3	191	5	PCT-US95-10398-191
20	44	38.3	191	5	PCT-US95-10398-192
21	44	38.3	191	5	PCT-US95-10398-193
22	44	38.3	191	5	PCT-US95-10398-195
23	44	38.3	191	5	PCT-US95-10398-196
24	44	38.3	191	5	PCT-US95-10398-197
25	44	38.3	319	4	US-08-635-886C-217
26	44	38.3	319	4	US-08-635-886C-219
27	44	38.3	319	4	US-08-974-690C-217
28	44	38.3	319	4	US-08-974-690C-219
29	37	32.2	191	2	US-08-290-665A-194
30	37	32.2	191	5	PCT-US95-10398-194
31	34	29.6	42	3	US-08-380-160-10
32	34	29.6	45	1	US-08-262-037-27
33	34	29.6	56	1	US-08-262-037-28
34	34	29.6	61	1	US-08-262-037-29
35	34	29.6	89	1	US-07-681-703B-24
36	34	29.6	89	2	US-08-407-410B-24
37	34	29.6	89	2	US-08-485-500-24
38	34	29.6	89	5	PCT-US91-02370-24
39	34	29.6	119	1	US-07-681-703B-18
40	34	29.6	119	2	US-08-407-410B-18
41	34	29.6	119	2	US-08-485-500-18
42	34	29.6	119	5	PCT-US91-02370-18
43	34	29.6	120	4	US-08-850-328-2
44	34	29.6	144	3	US-08-444-818-103
45	34	29.6	150	1	US-07-681-703B-16

ALIGNMENTS

RESULT 1
US-08-836-075A-50
; Sequence 50, Application US/08836075A
; Patent No. 6180768

; GENERAL INFORMATION:
; APPLICANT: MAERTENS, GERT

; APPLICANT: STUYVER, LIEVEN

; TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES

; TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC

; NUMBER OF SEQUENCES: 207

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: ARNOLD, WHITE & DURKEE

; STREET: P.O. BOX 4433

; CITY: HOUSTON

; STATE: TEXAS

; COUNTRY: USA

; ZIP: 77210-4433

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disk

; COMPUTER: IBM PC compatible

; OPERATING SYSTEM: PC-DOS/MS-DOS

; SOFTWARE: Microsoft Word 6.0 / ASCII text output

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/08/836.075A

; FILING DATE: 21 Apr 1997

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: PCT/EP95/04155

; FILING DATE: 23 Oct 1995

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: EP 94870166.9

; FILING DATE: 21 Oct 1994

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: EP 95870076.7

; FILING DATE: 28 Jun 1995

; ATTORNEY/AGENT INFORMATION:

Fri Feb 27 14:10:23 2004

NAME: KAMMERER, PATRICIA A.
REGISTRATION NUMBER: 29,775
REFERENCE/DOCKET NUMBER: INNS:004
INFORMATION FOR SEQ ID NO: 50:
SEQUENCE CHARACTERISTICS:
LENGTH: 115 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: peptide
US-08-836-075A-50

Alignment Scores: 115
Pred. No.: 98
Score: 98.00
Percent Similarity: 100.00%
Best Local Similarity: 100.00%
Query Match: 85.22%
DB: 3

US-09-873-224A-147 (1-345) x US-08-836-075A-50 (1-115)

QY 51 CGGCCACAGACGTTAAGTTCACAGCGCGGTTCAGATCGTTGGTGGAGTTTACGTGCTA 110
Db 18 ArgProGlnAspVallyspheProGlyGlyGlnleValGlyValTyValleu 37
QY 111 CCAGCGAGGGCCCCCAGTGGGTGTGGTGCAGTGCAGTGCAGCAACTTCGAGCGGTGCGAA 170
Db 38 ProArgArgGlyProGlnleuGlyValArgAlaValArgLysThrSerGluArgSerGln 57
QY 171 CCTCGCAGTAGCGCCACCAATCCCGAGGGCGGCCCAACCGAGGCGAGTCTCTGGGCT 230
Db 58 ProArgSerArgGlnProleProArgAlaArgLysThrSerGluArgSerGln 77
QY 231 CAGCCCGGTACCTTGGCCCTATATGGAATGAGGGCTGCGGTGGCGAGGGTGGTCTC 290
Db 78 GlnProGlyTyProTrpProleuTyGlyAsnGluGlyCysGlyTrpAlaGlyTrpLeu 97
QY 291 CTGTCCCGC 299
Db 98 LeuSerPro 100

RESULT 2

US-08-635-886C-233
; Sequence 233, Application US/08635886C
; Patent No. 6555114
; GENERAL INFORMATION:
; APPLICANT: LEROUX-ROELS, Geert
; APPLICANT: DELEYS, Robert
; APPLICANT: MAERTENS, Geert
; TITLE OF INVENTION: IMMUNODOMINANT HUMAN T CELL EPITOPES OF HEPATITIS C
; TITLE OF INVENTION: VIRUS
; FILE REFERENCE: 2752-18
; CURRENT APPLICATION NUMBER: US/08/635,886C
; CURRENT FILING DATE: 1996-04-25
; PRIOR APPLICATION NUMBER: PCT/EP94/03555
; PRIOR FILING DATE: 1994-10-28
; PRIOR APPLICATION NUMBER: EP 93402718.6
; PRIOR FILING DATE: 1993-11-04
; NUMBER OF SEQ ID NOS: 286
; SOFTWARE: Patent in version 3.1
; SEQ ID NO 233
; LENGTH: 100
; TYPE: PRT
; ORGANISM: hepatitis C virus
; FEATURE:
; NAME/KEY: MISC FEATURE
; LOCATION: (17)..(17)
; OTHER INFORMATION: Xaa is any amino acid

Alignment Scores: 100
Pred. No.: 83
Score: 83.00
Percent Similarity: 100.00%
Best Local Similarity: 100.00%
Query Match: 72.17%
DB: 4

US-08-635-886C-233
; Sequence 233, Application US/08635886C
; Patent No. 6555114
; GENERAL INFORMATION:
; APPLICANT: LEROUX-ROELS, Geert
; APPLICANT: DELEYS, Robert
; APPLICANT: MAERTENS, Geert
; TITLE OF INVENTION: IMMUNODOMINANT HUMAN T CELL EPITOPES OF HEPATITIS C
; TITLE OF INVENTION: VIRUS
; FILE REFERENCE: 2752-18
; CURRENT APPLICATION NUMBER: US/08/635,886C
; CURRENT FILING DATE: 1996-04-25
; PRIOR APPLICATION NUMBER: PCT/EP94/03555
; PRIOR FILING DATE: 1994-10-28
; PRIOR APPLICATION NUMBER: EP 93402718.6
; PRIOR FILING DATE: 1993-11-04
; NUMBER OF SEQ ID NOS: 286
; SOFTWARE: Patent in version 3.1
; SEQ ID NO 233
; LENGTH: 100
; TYPE: PRT
; ORGANISM: hepatitis C virus
; FEATURE:
; NAME/KEY: MISC FEATURE
; LOCATION: (17)..(17)
; OTHER INFORMATION: Xaa is any amino acid

US-08-635-886C-233

Alignment Scores: 100
Pred. No.: 83
Score: 83.00
Percent Similarity: 100.00%
Best Local Similarity: 100.00%
Query Match: 72.17%
DB: 4

US-08-635-886C-233

US-08-635-886C-233

US-08-635-886C-233

US-08-635-886C-233

Percent Similarity: 100.00%
Best Local Similarity: 100.00%
Query Match: 72.17%
DB: 4
Conservative: 0
Mismatch: 0
Indels: 0
Gaps: 0

US-09-873-224A-147 (1-345) x US-08-635-886C-233 (1-100)

QY 51 CGGCCACAGACGTTAAGTTCACAGCGCGGTTCAGATCGTTGGTGGAGTTTACGTGCTA 110
Db 18 ArgProGlnAspVallyspheProGlyGlyGlnleValGlyValTyValleu 37
QY 111 CCAGCGAGGGCCCCCAGTGGGTGTGGTGCAGTGCAGTGCAGCAACTTCGAGCGGTGCGAA 170
Db 38 ProArgArgGlyProGlnleuGlyValArgAlaValArgLysThrSerGluArgSerGln 57
QY 171 CCTCGCAGTAGCGCCACCAATCCCGAGGGCGGCCCAACCGAGGCGAGTCTCTGGGCT 230
Db 58 ProArgSerArgGlnProleProArgAlaArgLysThrSerGluArgSerGln 77
QY 231 CAGCCCGGTACCTTGGCCCTATATGGAATGAGGGCTGCGGTGGCGAGGGTGGTCTC 290
Db 78 GlnProGlyTyProTrpProleuTyGlyAsnGluGlyCysGlyTrpAlaGlyTrpLeu 97
QY 291 CTGTCCCGC 299
Db 98 LeuSerPro 100

RESULT 3

US-08-974-690C-233
; Sequence 233, Application US/08974690C
; Patent No. 6613333
; GENERAL INFORMATION:
; APPLICANT: LEROUX-ROELS, Geert
; APPLICANT: DELEYS, Robert
; APPLICANT: MAERTENS, Geert
; TITLE OF INVENTION: IMMUNODOMINANT HUMAN T CELL EPITOPES OF HEPATITIS C
; TITLE OF INVENTION: VIRUS
; FILE REFERENCE: 2551-94
; CURRENT APPLICATION NUMBER: US/08/974,690C
; CURRENT FILING DATE: 1997-11-19
; PRIOR APPLICATION NUMBER: PCT/EP94/03555
; PRIOR FILING DATE: 1994-10-28
; PRIOR APPLICATION NUMBER: EP 93402718.6
; PRIOR FILING DATE: 1993-11-04
; NUMBER OF SEQ ID NOS: 286
; SOFTWARE: Patent in version 3.1
; SEQ ID NO 233
; LENGTH: 100
; TYPE: PRT
; ORGANISM: hepatitis C virus
; FEATURE:
; NAME/KEY: MISC FEATURE
; LOCATION: (17)..(17)
; OTHER INFORMATION: Xaa is any amino acid

Alignment Scores: 100
Pred. No.: 83
Score: 83.00
Percent Similarity: 100.00%
Best Local Similarity: 100.00%
Query Match: 72.17%
DB: 4

US-09-873-224A-147 (1-345) x US-08-974-690C-233 (1-100)

QY 51 CGGCCACAGACGTTAAGTTCACAGCGCGGTTCAGATCGTTGGTGGAGTTTACGTGCTA 110
Db 18 ArgProGlnAspVallyspheProGlyGlyGlnleValGlyValTyValleu 37
QY 111 CCAGCGAGGGCCCCCAGTGGGTGTGGTGCAGTGCAGTGCAGCAACTTCGAGCGGTGCGAA 170
Db 38 ProArgArgGlyProGlnleuGlyValArgAlaValArgLysThrSerGluArgSerGln 57

Alignment Scores: 100
Pred. No.: 83
Score: 83.00
Percent Similarity: 100.00%
Best Local Similarity: 100.00%
Query Match: 72.17%
DB: 4

US-09-873-224A-147 (1-345) x US-08-974-690C-233 (1-100)

US-09-873-224A-147 (1-345) x US-08-974-690C-233 (1-100)

US-09-873-224A-147 (1-345) x US-08-974-690C-233 (1-100)

US-09-873-224A-147 (1-345) x US-08-974-690C-233 (1-100)

QY 171 CCTGCGAGTGGCGCCACCCATCCCGAGGGGCGCCGAAACGAGGGCAGGTCTCTGGCT 230
 Db 58 ProArgSerArgGlnProIleProAlaArgArgThrGluGlyArgSerTrpAla 77
 QY 231 CAGCCCGGTACCCCTTGGCCCTATATGGAATGAGGCTGGGGTGGCGAGGGTGGCTC 290
 Db 78 GlnProGlyTyTrpProLeuTyGlyAsnGluGlyCysGlyTrpAlaGlyTrpLeu 97
 QY 291 CTGTCCCGC 299
 Db 98 LeuSerPro 100

RESULT 4

US-08-244-116B-15
 ; Sequence 15, Application US/08244116B
 ; Patent No. 5763159
 ; GENERAL INFORMATION:
 ; APPLICANT: Simmonds, Peter
 ; APPLICANT: Chan, Shiu-Wan
 ; APPLICANT: Yap, Peng L.
 ; TITLE OF INVENTION: Hepatitis-C Virus Testing
 ; NUMBER OF SEQUENCES: 53
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: Bell, Seltzer, Park & Gibson, P.A.
 ; STREET: 1211 East Morehead Street
 ; CITY: Charlotte
 ; STATE: No. 5763159th Carolina
 ; COUNTRY: United States
 ; ZIP: 28234
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Floppy disk
 ; COMPUTER: IBM PC compatible
 ; OPERATING SYSTEM: PC-DOS/MS-DOS
 ; SOFTWARE: Patent In Release #1.0. Version #1.30
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/08/244,116B
 ; FILING DATE: 15-JUL-1994
 ; CLASSIFICATION: 435
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: PCT/GB92/02143
 ; FILING DATE: 20-NOV-1992
 ; ATTORNEY/AGENT INFORMATION:
 ; NAME: Sibley, Kenneth D.
 ; REGISTRATION NUMBER: 31,665
 ; REFERENCE/DOCKET NUMBER: 1749-125
 ; TELECOMMUNICATION INFORMATION:
 ; TELEPHONE: 704-377-1561
 ; TELEFAX: 704-334-2014
 ; INFORMATION FOR SEQ ID NO: 15:
 ; SEQUENCE CHARACTERISTICS:
 ; LENGTH: 124 amino acids
 ; TYPE: amino acid
 ; STRANDEDNESS:
 ; TOPOLOGY: linear
 ; MOLECULE TYPE: peptide
 ; HYPOTHETICAL: yes
 ; FRAGMENT TYPE: internal
 ; ORIGINAL SOURCE:
 ; ORGANISM: Hepatitis-C virus

US-08-244-116B-15
 Alignment Scores:
 Pred. No.: 7.6e-33 Length: 124
 Score: 44.00 Matches: 44
 Percent Similarity: 100.00% Conservative: 0
 Best Local Similarity: 100.00% Mismatches: 0
 Query Match: 38.26% Indels: 0
 DB: 1 Gaps: 0

US-09-873-224A-147 (1-345) x US-08-244-116B-15 (1-124)

QY 213 GAGGCGAGGTCTCTGGGCTCAGCCCGGTACCTTGGCCCTATATGGAATGAGGGCTGC 272

Db 68 GluGlyArgSerTrpAlaGlnProGlyTyTrpProLeuTyGlyAsnGluGlyCys 87
 QY 273 GGGTGGGCGAGGTGGCTCTCTCCCGCGCGGCTCTCGCCCGTGGGGCCCAATGAC 332
 Db 88 GlyTrpAlaGlyTrpLeuLeuSerProArgGlySerArgProSerTrpGlyProAsnAsp 107
 QY 333 CCGCGGGCGAGG 344
 Db 108 ProArgArgArg 111

RESULT 5

US-08-290-665A-187
 ; Sequence 187, Application US/08290665A
 ; Patent No. 5882852
 ; GENERAL INFORMATION:
 ; APPLICANT: BURKH, J., MILLER, R.H. AND
 ; APPLICANT: PURCELL, R.H.
 ; TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
 ; TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
 ; TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
 ; TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
 ; TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
 ; NUMBER OF SEQUENCES: 263
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: MORGAN & FINNEGAN
 ; STREET: 345 PARK AVENUE
 ; CITY: NEW YORK
 ; STATE: NEW YORK
 ; COUNTRY: USA
 ; ZIP: 10154
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: FLOPPY DISK
 ; COMPUTER: IBM PC COMPATIBLE
 ; OPERATING SYSTEM: PC-DOS/MS-DOS
 ; SOFTWARE: WORDPERFECT 5.1
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/08/290,665A
 ; FILING DATE: 15-AUG-1994
 ; CLASSIFICATION: 435
 ; ATTORNEY/AGENT INFORMATION:
 ; NAME: RICHARD W. BORK
 ; REGISTRATION NUMBER: 36,459
 ; REFERENCE/DOCKET NUMBER: 2026-4116
 ; TELECOMMUNICATION INFORMATION:
 ; TELEPHONE: (212) 759-4800
 ; TELEFAX: (212) 751-6849
 ; TELEX: 421792
 ; INFORMATION FOR SEQ ID NO: 187:
 ; SEQUENCE CHARACTERISTICS:
 ; LENGTH: 191 amino acids
 ; TYPE: amino acid
 ; STRANDEDNESS: unknown
 ; TOPOLOGY: unknown
 ; ORIGINAL SOURCE:
 ; ORGANISM: homoeapiens
 ; INDIVIDUAL ISOLATE: HK10
 ; US-08-290-665A-187

Alignment Scores:
 Pred. No.: 7.13e-33 Length: 191
 Score: 44.00 Matches: 44
 Percent Similarity: 100.00% Conservative: 0
 Best Local Similarity: 100.00% Mismatches: 0
 Query Match: 38.26% Indels: 0
 DB: 2 Gaps: 0

US-09-873-224A-147 (1-345) x US-08-290-665A-187 (1-191)

QY 213 GAGGCGAGGTCTCTGGGCTCAGCCCGGTACCTTGGCCCTATATGGAATGAGGGCTGC 272

Db 72 GluGlyArgSerTrpAlaGlnProGlyTyTrpProLeuTyGlyAsnGluGlyCys 91

QY 273 GGGTGGGAGGGTGGCTCTGTCCCGCGGGCTCTCCGCCGCTGTGGGGCCCAATGAC 332
Db 92 GlyTrpAlaGlyTrpLeuLeuSerProArgGlySerArgProSerTrpGlyProAsnAsp 111

QY 333 CCCCGGCGCAGG 344
Db 112 ProArgArgArg 115

RESULT 6
US-08-290-665A-188
; Sequence 188, Application US/08290665A
; Patent No. 5882852
; GENERAL INFORMATION:
; APPLICANT: BURKH, J., MILLER, R.H. AND
; APPLICANT: PURCELL, R.H.
; TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
; TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
; TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
; TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
; TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
; NUMBER OF SEQUENCES: 263
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: MORGAN & FINNEGAN
; STREET: 345 PARK AVENUE
; CITY: NEW YORK
; STATE: NEW YORK
; COUNTRY: USA
; ZIP: 10154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: FLOPPY DISK
; COMPUTER: IBM PC COMPATIBLE
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: WORDPERFECT 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/290,665A
; FILING DATE: 15-AUG-1994
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: RICHARD W. BORK
; REGISTRATION NUMBER: 36,459
; REFERENCE/DOCKET NUMBER: 2026-4116
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212) 758-4800
; TELEFAX: (212) 751-6849
; TELEX: 421792
; INFORMATION FOR SEQ ID NO: 188:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 191 amino acids
; TYPE: amino acid
; STRANDEDNESS: unknown
; TOPOLOGY: unknown
; ORGANISM: hom sapiens
; INDIVIDUAL ISOLATE: S52
US-08-290-665A-188

Alignment Scores:
Pred. No.: 7,13e-33 Length: 191
Score: 44.00 Matches: 44
Percent Similarity: 100.00% Conservatives: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 38.26% Indels: 0
DB: 2 Gaps: 0

US-09-873-224A-147 (1-345) x US-08-290-665A-188 (1-191)

QY 213 GAGGCGAGGTCTGGGCTCAGCCCGGTACCTTGGCCCTATATGGGAATGAGGGTGC 272
Db 72 GluGlyArgSerTrpAlaGlnProGlyTrpProLeuTrpGlyAsnGluGlyCys 91
QY 273 GGGTGGGAGGGTGGCTCTGTCCCGCGGGCTCTCCCGGCTGTGGGGCCCAATGAC 332
Db 92 GlyTrpAlaGlyTrpLeuLeuSerProArgGlySerArgProSerTrpGlyProAsnAsp 111

QY 333 CCCCGGCGCAGG 344
Db 112 ProArgArgArg 115

RESULT 7
US-08-290-665A-189
; Sequence 189, Application US/08290665A
; Patent No. 5882852
; GENERAL INFORMATION:
; APPLICANT: BURKH, J., MILLER, R.H. AND
; APPLICANT: PURCELL, R.H.
; TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
; TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
; TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
; TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
; TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
; NUMBER OF SEQUENCES: 263
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: MORGAN & FINNEGAN
; STREET: 345 PARK AVENUE
; CITY: NEW YORK
; STATE: NEW YORK
; COUNTRY: USA
; ZIP: 10154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: FLOPPY DISK
; COMPUTER: IBM PC COMPATIBLE
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: WORDPERFECT 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/290,665A
; FILING DATE: 15-AUG-1994
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: RICHARD W. BORK
; REGISTRATION NUMBER: 36,459
; REFERENCE/DOCKET NUMBER: 2026-4116
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212) 758-4800
; TELEFAX: (212) 751-6849
; TELEX: 421792
; INFORMATION FOR SEQ ID NO: 189:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 191 amino acids
; TYPE: amino acid
; STRANDEDNESS: unknown
; TOPOLOGY: unknown
; ORGANISM: hom sapiens
; INDIVIDUAL ISOLATE: S2
US-08-290-665A-189

Alignment Scores:
Pred. No.: 7,13e-33 Length: 191
Score: 44.00 Matches: 44
Percent Similarity: 100.00% Conservatives: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 38.26% Indels: 0
DB: 2 Gaps: 0

US-09-873-224A-147 (1-345) x US-08-290-665A-189 (1-191)

QY 213 GAGGCGAGGTCTGGGCTCAGCCCGGTACCTTGGCCCTATATGGGAATGAGGGTGC 272
Db 72 GluGlyArgSerTrpAlaGlnProGlyTrpProLeuTrpGlyAsnGluGlyCys 91
QY 273 GGGTGGGAGGGTGGCTCTGTCCCGCGGGCTCTCCCGGCTGTGGGGCCCAATGAC 332
Db 92 GlyTrpAlaGlyTrpLeuLeuSerProArgGlySerArgProSerTrpGlyProAsnAsp 111
QY 333 CCCCGGCGCAGG 344

Db 112 ProArgArgArg 115

RESULT 8

US-08-290-665A-190
; Sequence 190, Application US/08290665A

; Patent No. 5882852

; GENERAL INFORMATION:

; APPLICANT: BURKH, J., MILLER, R.H. AND

; APPLICANT: PURCELL, R.H.

; TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED

; TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND

; TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS

; TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE

; TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES

; NUMBER OF SEQUENCES: 263

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: MORGAN & FINNEGAN

; STREET: 345 PARK AVENUE

; CITY: NEW YORK

; STATE: NEW YORK

; COUNTRY: USA

; ZIP: 10154

; COMPUTER READABLE FORM:

; MEDIUM TYPE: FLOPPY DISK

; COMPUTER: IBM PC COMPATIBLE

; OPERATING SYSTEM: PC-DOS/MS-DOS

; SOFTWARE: WORDPERFECT 5.1

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/08/290,665A

; FILING DATE: 15-AUG-1994

; CLASSIFICATION: 435

; ATTORNEY/AGENT INFORMATION:

; NAME: RICHARD W. BORK

; REGISTRATION NUMBER: 36,459

; REFERENCE/DOCKET NUMBER: 2026-4116

; TELECOMMUNICATION INFORMATION:

; TELEPHONE: (212) 751-6840

; TELEFAX: (212) 751-6849

; TELEX: 421792

; INFORMATION FOR SEQ ID NO: 190:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 191 amino acids

; TYPE: amino acid

; STRANDEDNESS: unknown

; TOPOLOGY: unknown

; ORGANISM: homosapiens

; ORIGINAL SOURCE:

; INDIVIDUAL ISOLATE: DK12

US-08-290-665A-190

Alignment Scores:

Pred. No.:	7.13e-33	Length:	191
Score:	44.00	Matches:	44
Percent Similarity:	100.00%	Conservative:	0
Best Local Similarity:	100.00%	Mismatches:	0
Query Match:	38.26%	Indels:	0
DB:	2	Gaps:	0

US-09-873-224A-147 (1-345) x US-08-290-665A-190 (1-191)

QY 213 GAGGGCAGGTCTCTGGGCTCAGCCCGGTACCCCTTGGCCCTATATGGGAATGAGGGCTGC 272

Db 72 GluGlyArgSerTrpAlaGlnProGlyTyrProTyrProLeuTyrGlyAsnGluGlyCys 91

QY 273 GGGTGGCGAGGGTGGCTCTGTCGCCCGCGGCTCTGCCCGGTCTGGGGGCCCAATGAC 332

Db 92 GlyTrpAlaGlyTrpLeuLeuSerProArgGlySerArgProSerTrpGlyProAsnAsp 111

QY 333 CCGCGCGCAGG 344

Db 112 ProArgArgArg 115

RESULT 9

US-08-290-665A-191

; Sequence 191, Application US/08290665A

; Patent No. 5882852

; GENERAL INFORMATION:

; APPLICANT: BURKH, J., MILLER, R.H. AND

; APPLICANT: PURCELL, R.H.

; TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED

; TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND

; TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS

; TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE

; TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES

; NUMBER OF SEQUENCES: 263

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: MORGAN & FINNEGAN

; STREET: 345 PARK AVENUE

; CITY: NEW YORK

; STATE: NEW YORK

; COUNTRY: USA

; ZIP: 10154

; COMPUTER READABLE FORM:

; MEDIUM TYPE: FLOPPY DISK

; COMPUTER: IBM PC COMPATIBLE

; OPERATING SYSTEM: PC-DOS/MS-DOS

; SOFTWARE: WORDPERFECT 5.1

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/08/290,665A

; FILING DATE: 15-AUG-1994

; CLASSIFICATION: 435

; ATTORNEY/AGENT INFORMATION:

; NAME: RICHARD W. BORK

; REGISTRATION NUMBER: 36,459

; REFERENCE/DOCKET NUMBER: 2026-4116

; TELECOMMUNICATION INFORMATION:

; TELEPHONE: (212) 751-6840

; TELEFAX: (212) 751-6849

; TELEX: 421792

; INFORMATION FOR SEQ ID NO: 191:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 191 amino acids

; TYPE: amino acid

; STRANDEDNESS: unknown

; TOPOLOGY: unknown

; ORIGINAL SOURCE:

; ORGANISM: homosapiens

; INDIVIDUAL ISOLATE: Z4

US-08-290-665A-191

Alignment Scores:

Pred. No.:	7.13e-33	Length:	191
Score:	44.00	Matches:	44
Percent Similarity:	100.00%	Conservative:	0
Best Local Similarity:	100.00%	Mismatches:	0
Query Match:	38.26%	Indels:	0
DB:	2	Gaps:	0

US-09-873-224A-147 (1-345) x US-08-290-665A-191 (1-191)

QY 213 GAGGGCAGGTCTCTGGGCTCAGCCCGGTACCCCTTGGCCCTATATGGGAATGAGGGCTGC 272

Db 72 GluGlyArgSerTrpAlaGlnProGlyTyrProTyrProLeuTyrGlyAsnGluGlyCys 91

QY 273 GGGTGGCGAGGGTGGCTCTGTCGCCCGCGGCTCTGCCCGGTCTGGGGGCCCAATGAC 332

Db 92 GlyTrpAlaGlyTrpLeuLeuSerProArgGlySerArgProSerTrpGlyProAsnAsp 111

QY 333 CCGCGCGCAGG 344

Db 112 ProArgArgArg 115

RESULT 10

US-08-290-665A-192

; Sequence 192, Application US/08290665A

; Patent No. 5882852

GENERAL INFORMATION:
 APPLICANT: BUKH, J., MILLER, R.H. AND
 APPLICANT: PURCELL, R.H.
 TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
 TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
 TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
 TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
 TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
 NUMBER OF SEQUENCES: 263
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: MORGAN & FINNEGAN
 STREET: 345 PARK AVENUE
 CITY: NEW YORK
 STATE: NEW YORK
 COUNTRY: USA
 ZIP: 10154
 COMPUTER READABLE FORM:
 MEDIUM TYPE: FLOPPY DISK
 COMPUTER: IBM PC COMPATIBLE
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: WORDPERFECT 5.1
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/290,665A
 FILING DATE: 15-AUG-1994
 CLASSIFICATION: 435
 ATTORNEY/AGENT INFORMATION:
 NAME: RICHARD W. BORK
 REGISTRATION NUMBER: 36,459
 REFERENCE/DOCKET NUMBER: 2026-4116
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (212) 758-4800
 TELEFAX: (212) 751-6849
 TELEX: 421792
 INFORMATION FOR SEQ ID NO: 192:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 191 amino acids
 TYPE: amino acid
 STRANDEDNESS: unknown
 TOPOLOGY: unknown
 ORIGINAL SOURCE:
 ORGANISM: homosapiens
 INDIVIDUAL ISOLATE: Z8
 US-08-290-665A-192

Alignment Scores:
 Pred. No.: 7.13e-33 Length: 191
 Score: 44.00 Matches: 44
 Percent Similarity: 100.00% Conservative: 0
 Best Local Similarity: 100.00% Mismatches: 0
 Query Match: 38.26% Indels: 0
 DB: 2 Gaps: 0

US-09-873-224A-147 (1-345) x US-08-290-665A-192 (1-191)

QY 213 GAGGCGAGGTCTGGGCTCAGCCCGGTTACCCCTTGCCCTATATGGAATGAGGGCTGC 272

Db 72 GluGlyArgSerTrpAlaGlnProGlyTyProTrpProLeuTyGlyAsnGluGlyCys 91

QY 273 GGGTGGCGAGGTGGCTCTGTCGCCCGCGGCTCTCGCCGCTGTCGGGGCCCAATGAC 332

Db 92 GlyTrpAlaGlyTrpLeuLeuSerProArgGlySerArgProSerTrpGlyProAsnAsp 111

QY 333 CCCCAGGCGAGG 344

Db 112 ProArgArgArg 115

RESULT 11

US-08-290-665A-193

Sequence 193 Application US/08290665A

Patent No. 5882852

GENERAL INFORMATION:

APPLICANT: BUKH, J., MILLER, R.H. AND

APPLICANT: PURCELL, R.H.

GENERAL INFORMATION:
 APPLICANT: BUKH, J., MILLER, R.H. AND
 APPLICANT: PURCELL, R.H.
 TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
 TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
 TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
 TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
 TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
 NUMBER OF SEQUENCES: 263
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: MORGAN & FINNEGAN
 STREET: 345 PARK AVENUE
 CITY: NEW YORK
 STATE: NEW YORK
 COUNTRY: USA
 ZIP: 10154
 COMPUTER READABLE FORM:
 MEDIUM TYPE: FLOPPY DISK
 COMPUTER: IBM PC COMPATIBLE
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: WORDPERFECT 5.1
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/290,665A
 FILING DATE: 15-AUG-1994
 CLASSIFICATION: 435
 ATTORNEY/AGENT INFORMATION:
 NAME: RICHARD W. BORK
 REGISTRATION NUMBER: 36,459
 REFERENCE/DOCKET NUMBER: 2026-4116
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (212) 758-4800
 TELEFAX: (212) 751-6849
 TELEX: 421792
 INFORMATION FOR SEQ ID NO: 193:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 191 amino acids
 TYPE: amino acid
 STRANDEDNESS: unknown
 TOPOLOGY: unknown
 ORIGINAL SOURCE:
 ORGANISM: homosapiens
 INDIVIDUAL ISOLATE: Z1
 US-08-290-665A-193

Alignment Scores:
 Pred. No.: 7.13e-33 Length: 191
 Score: 44.00 Matches: 44
 Percent Similarity: 100.00% Conservative: 0
 Best Local Similarity: 100.00% Mismatches: 0
 Query Match: 38.26% Indels: 0
 DB: 2 Gaps: 0

US-09-873-224A-147 (1-345) x US-08-290-665A-193 (1-191)

QY 213 GAGGCGAGGTCTGGGCTCAGCCCGGTTACCCCTTGCCCTATATGGAATGAGGGCTGC 272

Db 72 GluGlyArgSerTrpAlaGlnProGlyTyProTrpProLeuTyGlyAsnGluGlyCys 91

QY 273 GGGTGGCGAGGTGGCTCTGTCGCCCGCGGCTCTCGCCGCTGTCGGGGCCCAATGAC 332

Db 92 GlyTrpAlaGlyTrpLeuLeuSerProArgGlySerArgProSerTrpGlyProAsnAsp 111

QY 333 CCCCAGGCGAGG 344

Db 112 ProArgArgArg 115

RESULT 12

US-08-290-665A-195

Sequence 195 Application US/08290665A

Patent No. 5882852

GENERAL INFORMATION:

APPLICANT: BUKH, J., MILLER, R.H. AND

APPLICANT: PURCELL, R.H.

;; TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
;; NUMBER OF SEQUENCES: 263
;; CORRESPONDENCE ADDRESS:
;; ADDRESSEE: MORGAN & FINNEGAN
;; STREET: 345 PARK AVENUE
;; CITY: NEW YORK
;; STATE: NEW YORK
;; COUNTRY: USA
;; ZIP: 10154
;; COMPUTER READABLE FORM:
;; MEDIUM TYPE: FLOPPY DISK
;; COMPUTER: IBM PC COMPATIBLE
;; OPERATING SYSTEM: PC-DOS/MS-DOS
;; SOFTWARE: WORDPERFECT 5.1
;; CURRENT APPLICATION DATA:
;; APPLICATION NUMBER: US/08/290,665A
;; FILING DATE: 15-AUG-1994
;; CLASSIFICATION: 435
;; ATTORNEY/AGENT INFORMATION:
;; NAME: RICHARD W. BORK
;; REGISTRATION NUMBER: 36,459
;; REFERENCE/DOCKET NUMBER: 2026-4116
;; TELECOMMUNICATION INFORMATION:
;; TELEPHONE: (212) 758-4800
;; TELEFAX: (212) 751-6849
;; TELEX: 421792
;; INFORMATION FOR SEQ ID NO: 195:
;; SEQUENCE CHARACTERISTICS:
;; LENGTH: 191 amino acids
;; TYPE: amino acid
;; STRANDEDNESS: unknown
;; TOPOLOGY: unknown
;; ORGANISM: homosapiens
;; ORIGINAL SOURCE:
;; INDIVIDUAL ISOLATE: Z6
US-08-290-665A-195

Alignment Scores:
Pred. No.: 7,13e-33 Length: 191
Score: 44.00 Matches: 44
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 38.26% Indels: 0
DB: 2 Gaps: 0

US-09-873-224A-147 (1-345) x US-08-290-665A-195 (1-191)
QY 213 GAGGCGAGGTCTGGGCTCAGCCCGGTACCCCTATATGGGGAATGAGGGCTGC 272
Db 72 GluGlyArgSerTrpAlaGlnProGlyTyrProTrpProLeuTyrGlyAsnGluGlyCys 91
QY 273 GGGTGGGCGAGGTGGCTCTGCTCCCGCGCGGCTCTCGCCCGTGGGGGCCCAATGAC 332
Db 92 GlyTyrAlaGlyTrpLeuLeuSerProArgGlySerArgProSerTrpGlyProAsnAsp 111
QY 333 CCCCAGCGCAGG 344
Db 112 ProArgArgArg 115

RESULT 13
US-08-290-665A-196
; Sequence 196, Application US/08290665A
; Patent No. 5882852
; GENERAL INFORMATION:
; APPLICANT: BUKH, J., MILLER, R. H. AND
; TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
; TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
; TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
; TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
; TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
; NUMBER OF SEQUENCES: 263

;; CORRESPONDENCE ADDRESS:
;; ADDRESSEE: MORGAN & FINNEGAN
;; STREET: 345 PARK AVENUE
;; CITY: NEW YORK
;; STATE: NEW YORK
;; COUNTRY: USA
;; ZIP: 10154
;; COMPUTER READABLE FORM:
;; MEDIUM TYPE: FLOPPY DISK
;; COMPUTER: IBM PC COMPATIBLE
;; OPERATING SYSTEM: PC-DOS/MS-DOS
;; SOFTWARE: WORDPERFECT 5.1
;; CURRENT APPLICATION DATA:
;; APPLICATION NUMBER: US/08/290,665A
;; FILING DATE: 15-AUG-1994
;; CLASSIFICATION: 435
;; ATTORNEY/AGENT INFORMATION:
;; NAME: RICHARD W. BORK
;; REGISTRATION NUMBER: 36,459
;; REFERENCE/DOCKET NUMBER: 2026-4116
;; TELECOMMUNICATION INFORMATION:
;; TELEPHONE: (212) 758-4800
;; TELEFAX: (212) 751-6849
;; TELEX: 421792
;; INFORMATION FOR SEQ ID NO: 196:
;; SEQUENCE CHARACTERISTICS:
;; LENGTH: 191 amino acids
;; TYPE: amino acid
;; STRANDEDNESS: unknown
;; TOPOLOGY: unknown
;; ORGANISM: homosapiens
;; ORIGINAL SOURCE:
;; INDIVIDUAL ISOLATE: Z7
US-08-290-665A-196

Alignment Scores:
Pred. No.: 7,13e-33 Length: 191
Score: 44.00 Matches: 44
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 38.26% Indels: 0
DB: 2 Gaps: 0

US-09-873-224A-147 (1-345) x US-08-290-665A-196 (1-191)
QY 213 GAGGCGAGGTCTGGGCTCAGCCCGGTACCCCTATATGGGGAATGAGGGCTGC 272
Db 72 GluGlyArgSerTrpAlaGlnProGlyTyrProTrpProLeuTyrGlyAsnGluGlyCys 91
QY 273 GGGTGGGCGAGGTGGCTCTGCTCCCGCGCGGCTCTCGCCCGTGGGGGCCCAATGAC 332
Db 92 GlyTyrAlaGlyTrpLeuLeuSerProArgGlySerArgProSerTrpGlyProAsnAsp 111
QY 333 CCCCAGCGCAGG 344
Db 112 ProArgArgArg 115

RESULT 14
US-08-290-665A-197
; Sequence 197, Application US/08290665A
; Patent No. 5882852
; GENERAL INFORMATION:
; APPLICANT: BUKH, J., MILLER, R. H. AND
; TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
; TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
; TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
; TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
; TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
; NUMBER OF SEQUENCES: 263
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: MORGAN & FINNEGAN
; STREET: 345 PARK AVENUE

CITY: NEW YORK
STATE: NEW YORK
COUNTRY: USA
ZIP: 10154
COMPUTER READABLE FORM:
MEDIUM TYPE: FLOPPY DISK
COMPUTER: IBM PC COMPATIBLE
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: WORDPERFECT 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/290,665A
FILING DATE: 15-AUG-1994
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: RICHARD W. BORK
REGISTRATION NUMBER: 36,459
REFERENCE/DOCKET NUMBER: 2026-4116
TELECOMMUNICATION INFORMATION:
TELEPHONE: (212) 751-6840
TELEFAX: (212) 751-6849
TELEX: 421792
INFORMATION FOR SEQ ID NO: 137:
SEQUENCE CHARACTERISTICS:
LENGTH: 191 amino acids
TYPE: amino acid
STRANDEDNESS: unknown
TOPOLOGY: unknown
ORGANISM: homosapiens
INDIVIDUAL ISOLATE: DK13
US-08-290-665A-197

Alignment Scores:
Pred. No.: 7.13e-33 Length: 191
Score: 44.00 Matches: 44
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 38.26% Indels: 0
DB: 2 Gaps: 0
US-09-873-224A-147 (1-345) x US-08-290-665A-197 (1-191)

QY 213 GAGGCGAGTCCCTGGGCTCAGCCCGGTACCTTGGCCCTATATGGGAATGAGGCTGC 272
Db 72 GluGlyArgSerTrpAlaGlnProGlyTyrProTrpProLeuTyrGlyAsnGluGlyCys 91
QY 273 GGTGGGCGAGGTGGTCTCTGTCCCGCGGCTCTCGCCCGTCTGTGGGGCCCAATGAC 332
Db 92 GlyTrpAlaGlyTrpLeuLeuSerProArgGlySerArgProSerTrpGlyProAsnAsp 111
QY 333 CCCCAGGCGAGG 344
Db 112 ProArgArgArg 115

RESULT 15
PCT-US95-10398-187
Sequence 187, Application PC/TUS9510398
GENERAL INFORMATION:
APPLICANT: BURG, J., MILLER, R.H. AND
APPLICANT: PURCELL, R.H.
TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
NUMBER OF SEQUENCES: 263
CORRESPONDENCE ADDRESS:
ADDRESSEE: MORGAN & FINNEGAN
STREET: 345 PARK AVENUE
CITY: NEW YORK
STATE: NEW YORK
COUNTRY: USA
ZIP: 10154

COMPUTER READABLE FORM:
MEDIUM TYPE: FLOPPY DISK
COMPUTER: IBM PC COMPATIBLE
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: WORDPERFECT 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: PCT/US95/10398
FILING DATE: 15-AUG-1995
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/086,428
FILING DATE: 29 JUNE 1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/290/665
FILING DATE: 15 AUGUST 1994
ATTORNEY/AGENT INFORMATION:
NAME: RICHARD W. BORK
REGISTRATION NUMBER: 36,459
REFERENCE/DOCKET NUMBER: 2026-4116
TELECOMMUNICATION INFORMATION:
TELEPHONE: (212) 751-6840
TELEFAX: (212) 751-6849
TELEX: 421792
INFORMATION FOR SEQ ID NO: 187:
SEQUENCE CHARACTERISTICS:
LENGTH: 191 amino acids
TYPE: amino acid
STRANDEDNESS: unknown
TOPOLOGY: unknown
ORIGINAL SOURCE:
ORGANISM: homosapiens
INDIVIDUAL ISOLATE: HK10
PCT-US95-10398-187

Alignment Scores:
Pred. No.: 7.13e-33 Length: 191
Score: 44.00 Matches: 44
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 38.26% Indels: 0
DB: 5 Gaps: 0
US-09-873-224A-147 (1-345) x PCT-US95-10398-187 (1-191)

QY 213 GAGGCGAGTCCCTGGGCTCAGCCCGGTACCTTGGCCCTATATGGGAATGAGGCTGC 272
Db 72 GluGlyArgSerTrpAlaGlnProGlyTyrProTrpProLeuTyrGlyAsnGluGlyCys 91
QY 273 GGTGGGCGAGGTGGTCTCTGTCCCGCGGCTCTCGCCCGTCTGTGGGGCCCAATGAC 332
Db 92 GlyTrpAlaGlyTrpLeuLeuSerProArgGlySerArgProSerTrpGlyProAsnAsp 111
QY 333 CCCCAGGCGAGG 344
Db 112 ProArgArgArg 115

Search completed: February 25, 2004, 01:36:27
Job time : 18 secs

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OM nucleic - protein search, using frame_plus_n2p model

Run on: February 25, 2004, 01:34:23 ; Search time 33.5 Seconds

(without alignments)
4349.127 Million cell updates/sec

Title: US-09-873-224A-147

Perfect score: 115

Sequence: 1 atgagcacacttctaacc.....aaatgaccccggcagga 345

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Ygapop 60.0 , Ygapext 60.0
Fgapop 6.0 , Fgapext 7.0
Delop 6.0 , Delext 7.0

Searched: 809742 seqs, 211153259 residues

Word size: 1

Total number of hits satisfying chosen parameters: 1535912

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Maximum DB seq length: 2000000000

Post-processing: Listing first 45 summaries

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-DB=Published Applications AA -QFMT=fastan -SUFFIX=rapb -MINMATCH=0.1
-LOOPCL=0 -LOOPEXT=0 -UNITS=bits -START=1 -END=1 -MATRIX=oligo
-TRANS=human40.cdi -LIST=45 -DOCALIGN=200 -THR SCORE=quality -THR MIN=1
-ALIGN=15 -MODB=LOCAL -OUTFMT=ptc -NORM=ext -HEAPSIZE=500 -MINLEN=0
-MAXLEN=2000000000 -USER=US0987322a@cgn_1_1_53 @runat_24022004_132747_10665
-NCPU=6 -ICPU=3 -NO MMAP -LARGEQUERY -NEG SCORES=0 -WAIT -DSPBLOCK=100
-LONGLOG -DEV TIMEOUT=120 -WARN TIMEOUT=30 -THREADS=1 -XGAPOP=60 -XGAPEXT=60
-FGAPOP=6 -FGAPEXT=7 -YGAPOP=60 -YGAPEXT=60 -DELOP=6 -DELEXT=7

Database : Published Applications AA:*

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3: /cgn2_6/ptodata/2/pubpaa/US06_NEW_PUB.pep.*
4: /cgn2_6/ptodata/2/pubpaa/US06_PUBCOMB.pep.*
5: /cgn2_6/ptodata/2/pubpaa/US07_NEW_PUB.pep.*
6: /cgn2_6/ptodata/2/pubpaa/US07_PUBCOMB.pep.*
7: /cgn2_6/ptodata/2/pubpaa/US08_NEW_PUB.pep.*
8: /cgn2_6/ptodata/2/pubpaa/US08_PUBCOMB.pep.*
9: /cgn2_6/ptodata/2/pubpaa/US09A_PUBCOMB.pep.*
10: /cgn2_6/ptodata/2/pubpaa/US09B_PUBCOMB.pep.*
11: /cgn2_6/ptodata/2/pubpaa/US09C_PUBCOMB.pep.*
12: /cgn2_6/ptodata/2/pubpaa/US09_NEW_PUB.pep.*
13: /cgn2_6/ptodata/2/pubpaa/US10A_PUBCOMB.pep.*
14: /cgn2_6/ptodata/2/pubpaa/US10B_PUBCOMB.pep.*
15: /cgn2_6/ptodata/2/pubpaa/US10C_PUBCOMB.pep.*
16: /cgn2_6/ptodata/2/pubpaa/US10_NEW_PUB.pep.*
17: /cgn2_6/ptodata/2/pubpaa/US60_NEW_PUB.pep.*
18: /cgn2_6/ptodata/2/pubpaa/US60_PUBCOMB.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description

1	98	85.2	115	9	US-09-851-138-50	Sequence 50, Appl
2	98	85.2	115	10	US-09-899-046-148	Sequence 148, App
3	98	85.2	115	10	US-09-878-281-148	Sequence 148, App
4	44	38.3	124	14	US-10-396-964-15	Sequence 15, Appl
5	44	38.3	166	10	US-09-899-046-164	Sequence 164, App
6	44	38.3	166	10	US-09-878-281-164	Sequence 19, Appl
7	38	33.0	130	14	US-10-268-569-19	Sequence 19, Appl
8	38	33.0	161	14	US-10-230-381-5	Sequence 5, Appl
9	38	33.0	191	14	US-10-230-381-53	Sequence 53, Appl
10	38	33.0	191	14	US-10-230-381-54	Sequence 54, Appl
11	38	33.0	191	14	US-10-230-381-55	Sequence 55, Appl
12	38	33.0	193	14	US-10-230-381-50	Sequence 50, Appl
13	38	33.0	193	14	US-10-230-381-51	Sequence 51, Appl
14	38	33.0	193	14	US-10-230-381-52	Sequence 52, Appl
15	38	33.0	209	14	US-10-230-381-3	Sequence 3, Appl
16	38	33.0	209	14	US-10-230-381-7	Sequence 7, Appl
17	38	33.0	373	14	US-10-230-381-11	Sequence 11, Appl
18	38	33.0	373	14	US-10-230-381-13	Sequence 13, Appl
19	38	33.0	373	14	US-10-230-381-15	Sequence 15, Appl
20	36	31.3	166	10	US-09-899-046-194	Sequence 194, App
21	36	31.3	166	10	US-09-878-281-194	Sequence 194, App
22	34	29.6	113	9	US-09-921-397-78	Sequence 78, Appl
23	34	29.6	122	14	US-10-098-857B-1	Sequence 1, Appl
24	34	29.6	126	10	US-09-899-046-166	Sequence 166, App
25	34	29.6	126	10	US-09-878-281-166	Sequence 166, App
26	34	29.6	151	14	US-10-292-129-14	Sequence 14, Appl
27	34	29.6	182	9	US-09-929-955-2	Sequence 2, Appl
28	34	29.6	182	13	US-10-104-966-2	Sequence 2, Appl
29	34	29.6	190	14	US-10-268-562-1	Sequence 1, Appl
30	34	29.6	235	15	US-10-365-620-58	Sequence 58, Appl
31	34	29.6	249	15	US-10-365-620-54	Sequence 54, Appl
32	34	29.6	424	14	US-10-173-480-28	Sequence 28, Appl
33	34	29.6	459	15	US-10-365-620-60	Sequence 60, Appl
34	34	29.6	473	15	US-10-365-620-56	Sequence 56, Appl
35	34	29.6	2894	9	US-09-941-611-23	Sequence 23, Appl
36	34	29.6	2894	14	US-10-044-995-23	Sequence 23, Appl
37	34	29.6	3011	9	US-09-742-659-4	Sequence 4, Appl
38	34	29.6	3011	9	US-09-916-359-2	Sequence 2, Appl
39	34	29.6	3011	9	US-09-238-076-20	Sequence 20, Appl
40	34	29.6	3011	9	US-09-952-572-9	Sequence 9, Appl
41	34	29.6	3011	9	US-09-929-955-1	Sequence 1, Appl
42	34	29.6	3011	9	US-09-747-419-20	Sequence 20, Appl
43	34	29.6	3011	10	US-09-891-894-3	Sequence 3, Appl
44	34	29.6	3011	10	US-09-995-937-20	Sequence 20, Appl
45	34	29.6	3011	10	US-09-917-563-20	Sequence 20, Appl

ALIGNMENTS

RESULT 1

US-09-851-138-50
Sequence 50, Application US/09851138
Publication No. US20020183508A1

GENERAL INFORMATION:

APPLICANT: MAERTENS, GEERT
STUYVER, LIEVEN

TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES

AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC

AGENTS

NUMBER OF SEQUENCES: 207

CORRESPONDENCE ADDRESS:

ADDRESSEE: ARNOLD, WHITE & DURKEE

STREET: P.O. BOX 4433

CITY: HOUSTON

STATE: TEXAS

COUNTRY: USA

ZIP: 77210-4433

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Microsoft Word 6.0 / ASCII text output

CURRENT APPLICATION DATA:

```
; APPLICATION NUMBER: US/09/851,138
; FILING DATE: 09-May-2001
; PRIORITY APPLICATION DATA:
; APPLICATION NUMBER: 08/836,075
; FILING DATE: <Unknown>
; APPLICATION NUMBER: EP 94870166.9
; FILING DATE: 21 Oct 1994
; APPLICATION NUMBER: EP 95870076.7
; FILING DATE: 28 Jun 1995
; ATTORNEY/AGENT INFORMATION:
; NAME: KAMMERER, PATRICIA A.
; REGISTRATION NUMBER: 29,775
; REFERENCE/DOCKET NUMBER: INNS:004
; INFORMATION FOR SEQ ID NO: 50:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 115 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; SEQUENCE DESCRIPTION: SEQ ID NO: 50:
US-09-851-138-50

Alignment Scores:
Pred. No.: 5,71e-82 Length: 115
Score: 98.00 Matches: 98
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 85.22% Indels: 0
DB: 9 Gaps: 0

US-09-873-224A-147 (1-345) x US-09-851-138-50 (1-115)
QY 51 CGGCCACAGGACGTTAAGTTCACAGCGCGGTCAGATCGTTGGTGGAGTTACGTGCTA 110
Db 18 ArgProGlnAspValIysPheProGlyGlyGlnIleValGlyValTyrValLeu 37
QY 111 CCACGAGGGGCCCCAGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGT 170
Db 38 ProArgArgGlyProGlnLeuGlyValArgAlaValArgLysThrSerGluArgSerGln 57
QY 171 CCTCGCAGTAGGCGCCCAACCCATCCACAGGCGCGCCGACAGGCGAGGTCCTGGGCT 230
Db 58 ProArgSerArgGlnProIleProArgAlaArgThrGluGlyArgSerTrpAla 77
QY 231 CAGCCCGGGTACCTTGGCCCTATATGGGAATGAGGGCTCGGGTGGGCGAGGTTGGCTC 290
Db 78 GlnProGlyTyrProTrpProLeuTyrGlyAsnGluGlyCysGlyTrpAlaGlyTrpLeu 97
QY 291 CTGTCCCGCGCGCTCTCGCCGTCGCGGCGCCCAATGACCCCGCGCGAGG 344
Db 98 LeuSerProArgGlySerArgProSerTrpGlyProAsnAspProArgArg 115

RESULT 2
US-09-899-046-148
; Sequence 148, Application US/09899046
; Publication No. US2003008274A1
; GENERAL INFORMATION:
; APPLICANT:
; TITLE OF INVENTION: New sequences of hepatitis C virus
; TITLE OF INVENTION: genotypes for diagnosis, prophylaxis and therapy.
; NUMBER OF SEQUENCES: 270
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25 (BPO)
; CURRENT APPLICATION DATA:
; FILING DATE:
; APPLICATION NUMBER: US/09/899,046
; FILING DATE:
; PRIOR APPLICATION NUMBER: 08/362,455
; FILING DATE:
; INFORMATION FOR SEQ ID NO: 148:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 115 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-09-878-281-148

Alignment Scores:
Pred. No.: 5,71e-82 Length: 115
Score: 98.00 Matches: 98
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 85.22% Indels: 0
DB: 10 Gaps: 0
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```
; SEQUENCE CHARACTERISTICS:
; LENGTH: 115 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-09-899-046-148

Alignment Scores:
Pred. No.: 5,71e-82 Length: 115
Score: 98.00 Matches: 98
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 85.22% Indels: 0
DB: 10 Gaps: 0

US-09-873-224A-147 (1-345) x US-09-899-046-148 (1-115)
QY 51 CGGCCACAGGACGTTAAGTTCACAGCGCGGTCAGATCGTTGGTGGAGTTACGTGCTA 110
Db 18 ArgProGlnAspValIysPheProGlyGlyGlnIleValGlyValTyrValLeu 37
QY 111 CCACGAGGGGCCCCAGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGT 170
Db 38 ProArgArgGlyProGlnLeuGlyValArgAlaValArgLysThrSerGluArgSerGln 57
QY 171 CCTCGCAGTAGGCGCCCAACCCATCCACAGGCGCGCCGACAGGCGAGGTCCTGGGCT 230
Db 58 ProArgSerArgGlnProIleProArgAlaArgThrGluGlyArgSerTrpAla 77
QY 231 CAGCCCGGGTACCTTGGCCCTATATGGGAATGAGGGCTCGGGTGGGCGAGGTTGGCTC 290
Db 78 GlnProGlyTyrProTrpProLeuTyrGlyAsnGluGlyCysGlyTrpAlaGlyTrpLeu 97
QY 291 CTGTCCCGCGCGCTCTCGCCGTCGCGGCGCCCAATGACCCCGCGCGAGG 344
Db 98 LeuSerProArgGlySerArgProSerTrpGlyProAsnAspProArgArg 115

RESULT 3
US-09-878-281-148
; Sequence 148, Application US/09878281
; Publication No. US20030032005A1
; GENERAL INFORMATION:
; APPLICANT:
; TITLE OF INVENTION: New sequences of hepatitis C virus
; TITLE OF INVENTION: genotypes for diagnosis, prophylaxis and therapy.
; NUMBER OF SEQUENCES: 270
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25 (EPO)
; CURRENT APPLICATION DATA:
; FILING DATE:
; APPLICATION NUMBER: US/09/878,281
; FILING DATE:
; PRIOR APPLICATION NUMBER: 08/362,455
; FILING DATE:
; INFORMATION FOR SEQ ID NO: 148:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 115 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-09-878-281-148

Alignment Scores:
Pred. No.: 5,71e-82 Length: 115
Score: 98.00 Matches: 98
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 85.22% Indels: 0
DB: 10 Gaps: 0
```



```

RESULT 6
US-09-878-281-164
; Sequence 164, Application US/09878281
; Publication No. US20030032005A1
; GENERAL INFORMATION:
; APPLICANT:
; TITLE OF INVENTION: New sequences of hepatitis C virus
; TITLE OF INVENTION: genotypes for diagnosis, prophylaxis and therapy.
; NUMBER OF SEQUENCES: 270
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent in Release #1.0, Version #1.25 (EPO)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/878,281
; FILING DATE:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/362,455
; FILING DATE:
; INFORMATION FOR SEQ ID NO: 164:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 166 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-09-878-281-164

Alignment Scores:
Pred. No.: 4.76e-32 Length: 166
Score: 44.00 Matches: 44
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 38.26% Indels: 0
DB: 10 Gaps: 0

US-09-873-224A-147 (1-345) x US-09-878-281-164 (1-166)
QY 213 GAGGCGAGGTCTGGGCTACGCGGGTACCTTGGCCCTATATGGGAATGAGGCTGC 272
Db 72 GluGlyArgSerTrpAlaGlnProGlyTyrProTrpProLeuTyrGlyAsnGluGlyCys 91
QY 273 GGTGGGCGAGGTGGCTCTGCTCCCGCGGGCTCTGCGCGGTCTGCGGCGCCAAATGAC 332
Db 92 GlyTrpAlaGlyTrpLeuSerProArgGlySerArgProSerTrpGlyProAsnAsp 111
QY 333 CCGCGCGCGAGG 344
Db 112 ProArgArgArg 115

RESULT 7
US-10-268-569-19
; Sequence 19, Application US/10268569
; Publication No. US20030152965A1
; GENERAL INFORMATION:
; APPLICANT: Ortho-Clinical Diagnostics, Inc.
; TITLE OF INVENTION: HCV Core Protein Sequences
; FILE REFERENCE: CDS-0288
; CURRENT APPLICATION NUMBER: US/10/268,569
; CURRENT FILING DATE: 2002-10-10
; PRIOR APPLICATION NUMBER: 60/347,303
; PRIOR FILING DATE: 2001-11-11
; NUMBER OF SEQ ID NOS: 19
; SOFTWARE: Patent in version 3.1
; SEQ ID NO 19
; LENGTH: 130
; TYPE: PRT
; ORGANISM: Hepatitis C virus
US-10-268-569-19

Alignment Scores:
Pred. No.: 1.74e-26 Length: 130

```

```

Score: 38.00 Matches: 38
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 33.04% Indels: 0
DB: 14 Gaps: 0

US-09-873-224A-147 (1-345) x US-10-268-569-19 (1-130)
QY 213 GAGGCGAGGTCTGGGCTACGCGGGTACCTTGGCCCTATATGGGAATGAGGCTGC 272
Db 72 GluGlyArgSerTrpAlaGlnProGlyTyrProTrpProLeuTyrGlyAsnGluGlyCys 91
QY 273 GGTGGGCGAGGTGGCTCTGCTCCCGCGGGCTCTGCGCGGTCTGCGGCGCCCA 326
Db 92 GlyTrpAlaGlyTrpLeuSerProArgGlySerArgProSerTrpGlyPro 109

RESULT 8
US-10-230-381-5
; Sequence 5, Application US/10230381
; Publication No. US20030152591A1
; GENERAL INFORMATION:
; APPLICANT: Innogenetics N.V.
; TITLE OF INVENTION: New hepatitis C virus genotype 13, and its use as prophylactic
; TITLE OF INVENTION: therapeutic and diagnostic agents
; FILE REFERENCE: INN-124-EP
; CURRENT APPLICATION NUMBER: US/10/230,381
; CURRENT FILING DATE: 2002-08-29
; NUMBER OF SEQ ID NOS: 63
; SOFTWARE: Patent in version 3.1
; SEQ ID NO 5
; LENGTH: 161
; TYPE: PRT
; ORGANISM: Hepatitis C virus
US-10-230-381-5

Alignment Scores:
Pred. No.: 1.69e-26 Length: 161
Score: 38.00 Matches: 38
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 33.04% Indels: 0
DB: 14 Gaps: 0

US-09-873-224A-147 (1-345) x US-10-230-381-5 (1-161)
QY 231 CAGCCCGGTACCTTGGCCCTATATGGGAATGAGGCTGCGGTGGGCGAGGCTGC 230
Db 78 GlnProGlyTyrProTrpProLeuTyrGlyAsnGluGlyCysGlyTrpAlaGlyTrpLeu 97
QY 291 CTGTCCCGCGCGGTCTGCTCCCGGTCTGCGGTGGGCGCCAAATGACCCCGGCGCAGG 344
Db 98 LeuSerProArgGlySerArgProSerTrpGlyProAsnAspProArgArg 115

RESULT 9
US-10-230-381-53
; Sequence 53, Application US/10230381
; Publication No. US20030152591A1
; GENERAL INFORMATION:
; APPLICANT: Innogenetics N.V.
; TITLE OF INVENTION: New hepatitis C virus genotype 13, and its use as prophylactic
; TITLE OF INVENTION: therapeutic and diagnostic agents
; FILE REFERENCE: INN-124-EP
; CURRENT APPLICATION NUMBER: US/10/230,381
; CURRENT FILING DATE: 2002-08-29
; NUMBER OF SEQ ID NOS: 63
; SOFTWARE: Patent in version 3.1
; SEQ ID NO 53
; LENGTH: 191
; TYPE: PRT
; ORGANISM: hepatitis C virus
US-10-230-381-53

Alignment Scores:

```

Pred. No.: 191
Score: 1.65e-26 Length: 191
Matches: 38
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 33.04% Indels: 0
DB: 14 Gaps: 0

US-09-873-224A-147 (1-345) x US-10-230-381-53 (1-191)

QY 231 CAGCCCGGTACCTTGGCCCTATATGGGAATGAGGCTCGGGTGGCGAGGTGGCTC 290
|||||
Db 78 GlnProGlyTyrProTyrProLeuTyrGlyAsnGluGlyCysGlyTyrAlaGlyTyrLeu 97
|||||
QY 291 CTGTCCCGCGGGCTCTCGCCGCTCGGGGCCCAATGACCCCGGGCGAGG 344
|||||
Db 98 LeuSerProArgGlySerArgProSerTyrGlyProAsnAspProArgArg 115
|||||

RESULT 10

US-10-230-381-54
; Sequence 54, Application US/10230381
; Publication No. US20030152591A1
; GENERAL INFORMATION:
; APPLICANT: Innogenetics N.V.
; TITLE OF INVENTION: New hepatitis C virus genotype 13, and its use as prophylactic,
; FILE REFERENCE: INNX-124-EP
; CURRENT APPLICATION NUMBER: US/10/230,381
; CURRENT FILING DATE: 2002-08-29
; NUMBER OF SEQ ID NOS: 63
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 54
; LENGTH: 191
; TYPE: PRT
; ORGANISM: hepatitis C virus
US-10-230-381-54

Alignment Scores:
Pred. No.: 191
Score: 1.65e-26 Length: 191
Matches: 38
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 33.04% Indels: 0
DB: 14 Gaps: 0

US-09-873-224A-147 (1-345) x US-10-230-381-54 (1-191)

QY 231 CAGCCCGGTACCTTGGCCCTATATGGGAATGAGGCTCGGGTGGCGAGGTGGCTC 290
|||||
Db 78 GlnProGlyTyrProTyrProLeuTyrGlyAsnGluGlyCysGlyTyrAlaGlyTyrLeu 97
|||||
QY 291 CTGTCCCGCGGGCTCTCGCCGCTCGGGGCCCAATGACCCCGGGCGAGG 344
|||||
Db 98 LeuSerProArgGlySerArgProSerTyrGlyProAsnAspProArgArg 115
|||||

RESULT 11

US-10-230-381-55
; Sequence 55, Application US/10230381
; Publication No. US20030152591A1
; GENERAL INFORMATION:
; APPLICANT: Innogenetics N.V.
; TITLE OF INVENTION: New hepatitis C virus genotype 13, and its use as prophylactic,
; FILE REFERENCE: INNX-124-EP
; CURRENT APPLICATION NUMBER: US/10/230,381
; CURRENT FILING DATE: 2002-08-29
; NUMBER OF SEQ ID NOS: 63
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 55
; LENGTH: 191
; TYPE: PRT
; ORGANISM: hepatitis C virus
US-10-230-381-55

Alignment Scores:
Pred. No.: 191
Score: 1.65e-26 Length: 191
Matches: 38
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 33.04% Indels: 0
DB: 14 Gaps: 0

US-09-873-224A-147 (1-345) x US-10-230-381-55 (1-191)

QY 231 CAGCCCGGTACCTTGGCCCTATATGGGAATGAGGCTCGGGTGGCGAGGTGGCTC 290
|||||
Db 78 GlnProGlyTyrProTyrProLeuTyrGlyAsnGluGlyCysGlyTyrAlaGlyTyrLeu 97
|||||
QY 291 CTGTCCCGCGGGCTCTCGCCGCTCGGGGCCCAATGACCCCGGGCGAGG 344
|||||
Db 98 LeuSerProArgGlySerArgProSerTyrGlyProAsnAspProArgArg 115
|||||

RESULT 12

US-10-230-381-50
; Sequence 50, Application US/10230381
; Publication No. US20030152591A1
; GENERAL INFORMATION:
; APPLICANT: Innogenetics N.V.
; TITLE OF INVENTION: New hepatitis C virus genotype 13, and its use as prophylactic,
; FILE REFERENCE: INNX-124-EP
; CURRENT APPLICATION NUMBER: US/10/230,381
; CURRENT FILING DATE: 2002-08-29
; NUMBER OF SEQ ID NOS: 63
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 50
; LENGTH: 193
; TYPE: PRT
; ORGANISM: hepatitis C virus
US-10-230-381-50

Alignment Scores:
Pred. No.: 193
Score: 1.65e-26 Length: 193
Matches: 38
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 33.04% Indels: 0
DB: 14 Gaps: 0

US-09-873-224A-147 (1-345) x US-10-230-381-50 (1-193)

QY 231 CAGCCCGGTACCTTGGCCCTATATGGGAATGAGGCTCGGGTGGCGAGGTGGCTC 290
|||||
Db 62 GlnProGlyTyrProTyrProLeuTyrGlyAsnGluGlyCysGlyTyrAlaGlyTyrLeu 81
|||||
QY 291 CTGTCCCGCGGGCTCTCGCCGCTCGGGGCCCAATGACCCCGGGCGAGG 344
|||||
Db 82 LeuSerProArgGlySerArgProSerTyrGlyProAsnAspProArgArg 99
|||||

RESULT 13

US-10-230-381-51
; Sequence 51, Application US/10230381
; Publication No. US20030152591A1
; GENERAL INFORMATION:
; APPLICANT: Innogenetics N.V.
; TITLE OF INVENTION: New hepatitis C virus genotype 13, and its use as prophylactic,
; FILE REFERENCE: INNX-124-EP
; CURRENT APPLICATION NUMBER: US/10/230,381
; CURRENT FILING DATE: 2002-08-29
; NUMBER OF SEQ ID NOS: 63
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 51
; LENGTH: 193
; TYPE: PRT
; ORGANISM: hepatitis C virus
US-10-230-381-51

Alignment Scores:

Pred. No.: 1.65e-26 Length: 193
Score: 38.00 Matches: 38
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 33.04% Indels: 0
DB: 14 Gaps: 0

US-09-873-224A-147 (1-345) x US-10-230-381-51 (1-193)

QY 231 CAGCCCGGTACCCCTTGGCCCTATATGGGAATGAGGCTGGGGTGGGCGAGGTGGCTC 290

Db 62 GlnProGlyTyrProTyrProLeuTyrGlyAsnGluGlyCysGlyTyrAlaGlyTyrLeu 81

QY 291 CTGTCCCGCGCGGTCTCGCCGCTGCGGCCCAATGACCCCGCGCGAGG 344

Db 82 LeuSerProArgGlySerArgProSerTrpGlyProAsnAspProArgArg 99

RESULT 14

US-10-230-381-52

; Sequence 52, Application US/10230381

; Publication No. US20030152591A1

; GENERAL INFORMATION:

; APPLICANT: Innogenetics N.V.

; TITLE OF INVENTION: New hepatitis C virus genotype 13, and its use as prophylactic,

; FILE OF INVENTION: therapeutic and diagnostic agents

; FILE REFERENCE: INNX-124-EP

; CURRENT APPLICATION NUMBER: US/10/230,381

; CURRENT FILING DATE: 2002-08-29

; NUMBER OF SEQ ID NOS: 63

; SOFTWARE: PatentIn version 3.1

; SEQ ID NO 52

; LENGTH: 193

; TYPE: PRT

; ORGANISM: hepatitis C virus.

US-10-230-381-52

Alignment Scores:

Pred. No.: 1.65e-26 Length: 193
Score: 38.00 Matches: 38
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 33.04% Indels: 0
DB: 14 Gaps: 0

US-09-873-224A-147 (1-345) x US-10-230-381-52 (1-193)

QY 231 CAGCCCGGTACCCCTTGGCCCTATATGGGAATGAGGCTGGGGTGGGCGAGGTGGCTC 290

Db 62 GlnProGlyTyrProTyrProLeuTyrGlyAsnGluGlyCysGlyTyrAlaGlyTyrLeu 81

QY 291 CTGTCCCGCGCGGTCTCGCCGCTGCGGCCCAATGACCCCGCGCGAGG 344

Db 82 LeuSerProArgGlySerArgProSerTrpGlyProAsnAspProArgArg 99

RESULT 15

US-10-230-381-3

; Sequence 3, Application US/10230381

; Publication No. US20030152591A1

; GENERAL INFORMATION:

; APPLICANT: Innogenetics N.V.

; TITLE OF INVENTION: New hepatitis C virus genotype 13, and its use as prophylactic,

; FILE OF INVENTION: therapeutic and diagnostic agents

; FILE REFERENCE: INNX-124-EP

; CURRENT APPLICATION NUMBER: US/10/230,381

; CURRENT FILING DATE: 2002-08-29

; NUMBER OF SEQ ID NOS: 63

; SOFTWARE: PatentIn version 3.1

; SEQ ID NO 3

; LENGTH: 209

; TYPE: PRT

; ORGANISM: Hepatitis C virus

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OM nucleic - nucleic search, using sw model

Run on: February 27, 2004, 11:12:46 ; Search time 80 Seconds
(without alignments)

2393.226 Million cell updates/sec

Title: US-09-873-224A-147

Perfect score: 345

Sequence: 1 atgagcacacttctaacc.....aaatgaccccgccgagga 345

Scoring table: OLIGO_NUC

Gapop 60.0 , Gapext 60.0

Searched: 682709 seqs, 277475446 residues

Word size : 0

Total number of hits satisfying chosen parameters: 1365418

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Listing first 45 summaries

Database :

Issued Patents NA:*

- 1: /cgn2_6/ptodata/2/ina/5A COMB.seq:*
- 2: /cgn2_6/ptodata/2/ina/5B COMB.seq:*
- 3: /cgn2_6/ptodata/2/ina/6A COMB.seq:*
- 4: /cgn2_6/ptodata/2/ina/6B COMB.seq:*
- 5: /cgn2_6/ptodata/2/ina/PCTUS COMB.seq:*
- 6: /cgn2_6/ptodata/2/ina/backfiles1.seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	309	89.6	309	3	US-08-836-075A-49
2	43	12.5	549	3	US-08-441-971-60
3	43	12.5	549	3	US-08-221-653-60
4	43	12.5	549	3	US-08-442-144A-60
5	43	12.5	549	3	US-08-441-970-60
6	43	12.5	573	2	US-08-290-665A-141
7	43	12.5	573	4	US-09-194-949A-5
8	43	12.5	573	5	PCT-US95-10398-141
9	43	12.5	831	3	US-08-836-075A-65
10	40	11.6	573	2	US-08-290-665A-142
11	40	11.6	573	5	PCT-US95-10398-142
12	38	11.0	573	2	US-08-290-665A-136
13	38	11.0	573	5	PCT-US95-10398-136
14	35	10.1	573	2	US-08-290-665A-137
15	35	10.1	573	2	US-08-290-665A-138
16	35	10.1	573	2	US-08-290-665A-139
17	35	10.1	573	5	PCT-US95-10398-137
18	35	10.1	573	5	PCT-US95-10398-138
19	35	10.1	573	5	PCT-US95-10398-139
20	35	10.1	803	1	US-08-157-235-1
21	35	10.1	803	1	US-08-157-235-2
22	35	10.1	803	1	US-08-157-235-3
23	35	10.1	803	1	US-08-157-235-4
24	34	9.9	573	2	US-08-290-665A-135
25	34	9.9	573	5	PCT-US95-10398-135
26	34	9.9	803	1	US-08-157-235-5
27	31	9.0	183	1	US-07-681-703B-21

Sequence 21, Appl
Sequence 21, Appl
Sequence 21, Appl
Sequence 23, Appl
Sequence 23, Appl
Sequence 23, Appl
Sequence 23, Appl
Sequence 19, Appl
Sequence 19, Appl
Sequence 19, Appl
Sequence 19, Appl
Sequence 35, Appl
Sequence 1, Appl
Sequence 104, App
Sequence 106, App
Sequence 17, Appl
Sequence 17, Appl
Sequence 17, Appl

US-08-407-410B-21
US-08-485-500-21
PCT-US91-02370-21
US-07-681-703B-23
US-08-407-410B-23
US-08-485-500-23
PCT-US91-02370-23
US-07-681-703B-19
US-08-407-410B-19
US-08-485-500-19
PCT-US91-02370-19
US-08-537-811-35
US-08-836-075A-1
US-08-444-818-104
US-08-444-818-106
US-07-681-703B-17
US-08-407-410B-17
US-08-485-500-17

ALIGNMENTS

RESULT 1

US-08-836-075A-49
Sequence 49, Application US/08836075A
Patent No. 6180768

GENERAL INFORMATION:

APPLICANT: MARIENS, GEERT
APPLICANT: STUYVER, LIEVEN
TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
TITLE OF INVENTION: AGENTS
NUMBER OF SEQUENCES: 207
CORRESPONDENCE ADDRESS:
ADDRESSEE: ARNOLD, WHITE & DURKEE
STREET: P.O. BOX 4433
CITY: HOUSTON
STATE: TEXAS
COUNTRY: USA
ZIP: 77210-4433

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Microsoft Word 6.0 / ASCII text output
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/836,075A
FILING DATE: 21 Apr 1997
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/EP95/04155
FILING DATE: 23 Oct 1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 94870166.9
FILING DATE: 21 Oct 1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 95870076.7
FILING DATE: 28 Jun 1995
ATTORNEY/AGENT INFORMATION:
NAME: KAMMERER, PATRICIA A.
REGISTRATION NUMBER: 29,775
REFERENCE/DOCKET NUMBER: INNS:004
INFORMATION FOR SEQ ID NO: 49:
SEQUENCE CHARACTERISTICS:
LENGTH: 309 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
HYPOTHETICAL: NO
ANTI-SENSE: NO
US-08-836-075A-49

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Query Match      89.6%; Score 309; DB 3; Length 309;
Best Local Similarity 100.0%; Pred. No. 9.2e-147;
Matches 309; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ATGAGCACATCTCTTAACACCAAGAAAGAAACCAACCAACCCCGGCACAGG 60
DB 1 ATGAGCACATCTCTTAACACCAAGAAAGAAACCAACCAACCCCGGCACAGG 60

QY 61 ACCTTAAGTTCCTCCAGCGCGGTACAGTCTGTTGGTGGAGTTTACGTCGTCACGAGGG 120
DB 61 ACCTTAAGTTCCTCCAGCGCGGTACAGTCTGTTGGTGGAGTTTACGTCGTCACGAGGG 120

QY 121 GCGGCAAGTTCCTCCAGCGCGGTACAGTCTGTTGGTGGAGTTTACGTCGTCACGAGGG 180
DB 121 GCGGCAAGTTCCTCCAGCGCGGTACAGTCTGTTGGTGGAGTTTACGTCGTCACGAGGG 180

QY 181 GCGGCAAGTTCCTCCAGCGCGGTACAGTCTGTTGGTGGAGTTTACGTCGTCACGAGGG 240
DB 181 GCGGCAAGTTCCTCCAGCGCGGTACAGTCTGTTGGTGGAGTTTACGTCGTCACGAGGG 240

QY 241 ACCCTTGGCCCTATATGGAATAGAGGCTGCGGGTGGCGAGGTTCTCTGTCCTGTCCTCCGCG 300
DB 241 ACCCTTGGCCCTATATGGAATAGAGGCTGCGGGTGGCGAGGTTCTCTGTCCTGTCCTCCGCG 300

QY 301 GCGGCTCTC 309
DB 301 GCGGCTCTC 309

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RESULT 2
US-08-441-971-60
; Sequence 60, Application US/08441971
; Patent No. 6071693
; GENERAL INFORMATION:
; APPLICANT: Tai-An Cha
; TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
; TITLE OF INVENTION: DIAGNOSTICS AND THERAPEUTICS
; NUMBER OF SEQUENCES: 147
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Wolf, Greenfield & Sacks, P.C.
; STREET: 600 Atlantic Avenue
; CITY: Boston
; STATE: Massachusetts
; COUNTRY: USA
; ZIP: 02210
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 5.25 inch
; COMPUTER: IBM compatible
; OPERATING SYSTEM: MS-DOS Version 3.3
; SOFTWARE: WordPerfect 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/441,971
; FILING DATE: 16-MAY-1995
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/08/221,653
; FILING DATE:
; APPLICATION NUMBER: US/07/881,528
; FILING DATE:
; APPLICATION NUMBER: 07/697,326
; FILING DATE: 8 May 1991
; ATTORNEY/AGENT INFORMATION:
; NAME: Janiuk, Anthony J.
; REGISTRATION NUMBER: 29,809
; REFERENCE/DOCKET NUMBER: C0772/7000
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 720-3500
; TELEFAX: (617) 720-2441
; TELEX: EZEKIEL
; INFORMATION FOR SEQ ID NO: 60:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 549 nucleotides
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA
; ORIGINAL SOURCE:
; INDIVIDUAL ISOLATE: nac5
; US-08-221-653-60

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; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA
; ORIGINAL SOURCE:
; INDIVIDUAL ISOLATE: nac5
; US-08-441-971-60

Query Match      12.5%; Score 43; DB 3; Length 549;
Best Local Similarity 100.0%; Pred. No. 2.1e-12;
Matches 43; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 211 CCGAGGGCAGGTCCTGGGCTCAGCCGGGTACCTTGGCCCT 253
DB 212 CCGAGGGCAGGTCCTGGGCTCAGCCGGGTACCTTGGCCCT 254

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RESULT 3
US-08-221-653-60
; Sequence 60, Application US/08221653
; Patent No. 6190864
; GENERAL INFORMATION:
; APPLICANT: Tai-An Cha
; TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
; TITLE OF INVENTION: DIAGNOSTICS AND THERAPEUTICS
; NUMBER OF SEQUENCES: 147
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Wolf, Greenfield & Sacks, P.C.
; STREET: 600 Atlantic Avenue
; CITY: Boston
; STATE: Massachusetts
; COUNTRY: USA
; ZIP: 02210
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 5.25 inch
; COMPUTER: IBM compatible
; OPERATING SYSTEM: MS-DOS Version 3.3
; SOFTWARE: WordPerfect 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/221,653
; FILING DATE:
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/07/881,528
; FILING DATE:
; APPLICATION NUMBER: 07/697,326
; FILING DATE: 8 May 1991
; ATTORNEY/AGENT INFORMATION:
; NAME: Janiuk, Anthony J.
; REGISTRATION NUMBER: 29,809
; REFERENCE/DOCKET NUMBER: C0772/7000
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 720-3500
; TELEFAX: (617) 720-2441
; TELEX: EZEKIEL
; INFORMATION FOR SEQ ID NO: 60:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 549 nucleotides
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA
; ORIGINAL SOURCE:
; INDIVIDUAL ISOLATE: nac5
; US-08-221-653-60

Query Match      12.5%; Score 43; DB 3; Length 549;
Best Local Similarity 100.0%; Pred. No. 2.1e-12;
Matches 43; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 211 CCGAGGGCAGGTCCTGGGCTCAGCCGGGTACCTTGGCCCT 253
DB 212 CCGAGGGCAGGTCCTGGGCTCAGCCGGGTACCTTGGCCCT 254

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```

RESULT 4
US-08-442-144A-60
; Sequence 60, Application US/08442144A
; Patent No. 6214583
; GENERAL INFORMATION:
; APPLICANT: Tai-An Cha
; APPLICANT: Eileen Beall
; APPLICANT: Bruce Irvine
; APPLICANT: Janice Kolberg
; APPLICANT: Michael S. Urdea
; TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
; TITLE OF INVENTION: DIAGNOSTICS AND THERAPEUTICS
; NUMBER OF SEQUENCES: 148
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Chiron Corporation
; STREET: 4560 Horton Street
; CITY: Emeryville
; STATE: California
; COUNTRY: USA
; ZIP: 94608-2916
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 3.5 Inch
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: Windows NT
; SOFTWARE: Microsoft Word 97
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/442,144A
; FILING DATE: MAY 16, 1995
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/221,653
; FILING DATE: APRIL 1, 1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Doreen Yacko Trujillo
; REGISTRATION NUMBER: 35,719
; REFERENCE/DOCKET NUMBER: CHIR-0121
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 215-568-3100
; TELEFAX: 215-568-3439
; TELEX:
; INFORMATION FOR SEQ ID NO: 60:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 549 Nucleotides
; TYPE: Nucleic Acid
; STRANDEDNESS: Single
; TOPOLOGY: Linear
; MOLECULE TYPE: DNA
; ORIGINAL SOURCE:
; INDIVIDUAL ISOLATE: nac5
US-08-442-144A-60

Query Match 12.5%; Score 43; DB 3; Le
Best Local Similarity 100.0%; Pred. No. 2.1e-12;
Matches 43; Conservative 0; Mismatches 0;

Qy 211 CCGAGGCGAGGTCTCTGGGCTCAGCCCGGGTACCCCTTGGCC
Db 212 CCGAGGCGAGGTCTCTGGGCTCAGCCCGGGTACCCCTTGGCC

RESULT 5
US-08-441-970-60
; Sequence 60, Application US/08441970
; Patent No. 6297370
; GENERAL INFORMATION:
; APPLICANT: Tai-An Cha
; TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
; TITLE OF INVENTION: DIAGNOSTICS AND THERAPEUTICS
; NUMBER OF SEQUENCES: 147
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Wolf, Greenfield & Sacks, P.C.
; STREET: 600 Atlantic Avenue

```

FILING DATE: 15-AUG-1994
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: RICHARD W. BORK
REGISTRATION NUMBER: 36,459
REFERENCE/DOCKET NUMBER: 2026-4116
TELECOMMUNICATION INFORMATION:
TELEPHONE: (212) 758-4800
TELEFAX: (212) 751-6849
TELEX: 421792
INFORMATION FOR SEQ ID NO: 141:
SEQUENCE CHARACTERISTICS:
LENGTH: 573 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
ORIGINAL SOURCE:
ORGANISM: homosapiens
INDIVIDUAL ISOLATE: Z1
US-08-290-665A-141

Query Match 12.5%; Score 43; DB 2; Length 573;
Best Local Similarity 100.0%; Pred. No. 2.1e-12;
Matches 43; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 211 CCGAGGGCAGGTCCTGGGCTCAGCCGGGTACCCCTTGGCCCT 253
DB 212 CCGAGGGCAGGTCCTGGGCTCAGCCGGGTACCCCTTGGCCCT 254

RESULT 7

US-09-194-949A-5
Sequence 5, Application US/09194949A
Patent No. 6653125
GENERAL INFORMATION:
APPLICANT: Merck & Co., Inc.
APPLICANT: Donnelly, John J.
APPLICANT: Fu, Tong-Ming
APPLICANT: Liu, Margaret A.
APPLICANT: Shiver, John W.
TITLE OF INVENTION: SYNTHETIC HEPATITIS C GENES
FILE REFERENCE: 19732YP
CURRENT APPLICATION NUMBER: US/09/194,949A
CURRENT FILING DATE: 2000-02-17
PRIOR APPLICATION NUMBER: PCT/US97/09884
PRIOR FILING DATE: 1997-06-06
PRIOR APPLICATION NUMBER: 60/020,494
PRIOR FILING DATE: 1996-06-11
PRIOR APPLICATION NUMBER: 60/033,534
PRIOR FILING DATE: 1996-12-20
PRIOR APPLICATION NUMBER: 08/865,823
PRIOR FILING DATE: 1997-05-30
NUMBER OF SEQ ID NOS: 25
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 5
LENGTH: 573
TYPE: DNA
ORGANISM: Hepatitis C Virus
US-09-194-949A-5

Query Match 12.5%; Score 43; DB 4; Length 573;
Best Local Similarity 100.0%; Pred. No. 2.1e-12;
Matches 43; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 211 CCGAGGGCAGGTCCTGGGCTCAGCCGGGTACCCCTTGGCCCT 253
DB 212 CCGAGGGCAGGTCCTGGGCTCAGCCGGGTACCCCTTGGCCCT 254

RESULT 8

PCT-US95-10398-141
Sequence 141, Application PC/TUS95/10398
GENERAL INFORMATION:

APPLICANT: BUEH, J., MILLER, R.H. AND
APPLICANT: PURCELL, R.H.
TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
NUMBER OF SEQUENCES: 263
CORRESPONDENCE ADDRESS:
ADDRESSEE: MORGAN & FINNEGAN
STREET: 345 PARK AVENUE
CITY: NEW YORK
STATE: NEW YORK
COUNTRY: USA
ZIP: 10154

COMPUTER READABLE FORM:
MEDIUM TYPE: FLOPPY DISK
COMPUTER: IBM PC COMPATIBLE
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: WORDPERFECT 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: PCT/US95/10398
FILING DATE: 15-AUG-1995
CLASSIFICATION:
Prior Application Data:
APPLICATION NUMBER: 08/086,428
FILING DATE: 29 JUNE 1993
Prior Application Data:
APPLICATION NUMBER: 08/290/665
FILING DATE: 15 AUGUST 1994
ATTORNEY/AGENT INFORMATION:
NAME: RICHARD W. BORK
REGISTRATION NUMBER: 36,459
REFERENCE/DOCKET NUMBER: 2026-4116
TELECOMMUNICATION INFORMATION:
TELEPHONE: (212) 758-4800
TELEFAX: (212) 751-6849
TELEX: 421792

INFORMATION FOR SEQ ID NO: 141:
SEQUENCE CHARACTERISTICS:
LENGTH: 573 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
ORIGINAL SOURCE:
ORGANISM: homosapiens
INDIVIDUAL ISOLATE: Z1
PCT-US95-10398-141

Query Match 12.5%; Score 43; DB 5; Length 573;
Best Local Similarity 100.0%; Pred. No. 2.1e-12;
Matches 43; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 211 CCGAGGGCAGGTCCTGGGCTCAGCCGGGTACCCCTTGGCCCT 253
DB 212 CCGAGGGCAGGTCCTGGGCTCAGCCGGGTACCCCTTGGCCCT 254

RESULT 9

US-08-836-075A-65
Sequence 65, Application US/08836075A
Patent No. 6180768
GENERAL INFORMATION:

APPLICANT: MAERTENS, GEERT
APPLICANT: STUYVER, LIEVEN
TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
TITLE OF INVENTION: AGENTS
NUMBER OF SEQUENCES: 207
CORRESPONDENCE ADDRESS:
ADDRESSEE: ARNOLD, WHITE & DURKEE
STREET: P.O. BOX 4433
CITY: HOUSTON

STATE: TEXAS
COUNTRY: USA
ZIP: 77210-4433
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Microsoft Word 6.0 / ASCII text output
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/836,075A
FILING DATE: 21 Apr 1997
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/EP95/04155
FILING DATE: 23 Oct 1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 94870166.9
FILING DATE: 21 Oct 1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 95870076.7
FILING DATE: 28 Jun 1995
ATTORNEY/AGENT INFORMATION:
NAME: KAMMERER, PATRICIA A.
REGISTRATION NUMBER: 29,775
REFERENCE/DOCKET NUMBER: INNS:004
INFORMATION FOR SEQ ID NO: 65:
SEQUENCE CHARACTERISTICS:
LENGTH: 831 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
HYPOTHETICAL: NO
ANTI-SENSE: NO
US-08-836-075A-65

Query Match 12.5%; Score 43; DB 3; Length 831;
Best Local Similarity 100.0%; Pred. No. 2.1e-12;
Matches 43; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 211 CCGAGGCGAGTCTCGGCTCAGCCCGGTACCCCTTGGCCCT 253
|||||
DB 227 CCGAGGCGAGTCTCGGCTCAGCCCGGTACCCCTTGGCCCT 269

RESULT 10

US-08-290-665A-142
Sequence 142, Application US/08290665A
Patent No. 5882852

GENERAL INFORMATION:
APPLICANT: BUKH, J., MILLER, R.H. AND
APPLICANT: PURCELL, R.H.
TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES.
NUMBER OF SEQUENCES: 263
CORRESPONDENCE ADDRESS:
ADDRESSEE: MORGAN & FINNEGAN
STREET: 345 PARK AVENUE
CITY: NEW YORK
STATE: NEW YORK
COUNTRY: USA
ZIP: 10154

COMPUTER READABLE FORM:
MEDIUM TYPE: FLOPPY DISK
COMPUTER: IBM PC COMPATIBLE
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: WORDPERFECT 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/290,665A
FILING DATE: 15-AUG-1994
CLASSIFICATION: 435

ATTORNEY/AGENT INFORMATION:
NAME: RICHARD W. BORK
REGISTRATION NUMBER: 36,459
REFERENCE/DOCKET NUMBER: 2026-4116
TELECOMMUNICATION INFORMATION:
TELEPHONE: (212) 758-4800
TELEFAX: (212) 751-6849
TELEX: 421792
INFORMATION FOR SEQ ID NO: 142:
SEQUENCE CHARACTERISTICS:
LENGTH: 573 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
ORIGINAL SOURCE:
ORGANISM: homosapiens
INDIVIDUAL ISOLATE: Z5
US-08-290-665A-142

Query Match 11.6%; Score 40; DB 2; Length 573;
Best Local Similarity 100.0%; Pred. No. 7e-11;
Matches 40; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 211 CCGAGGCGAGTCTCGGCTCAGCCCGGTACCCCTTGGCC 250
|||||
DB 212 CCGAGGCGAGTCTCGGCTCAGCCCGGTACCCCTTGGCC 251

RESULT 11

PCT-US95-10398-142
Sequence 142, Application PC/TUS9510398
GENERAL INFORMATION:

APPLICANT: BUKH, J., MILLER, R.H. AND
APPLICANT: PURCELL, R.H.
TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
NUMBER OF SEQUENCES: 263
CORRESPONDENCE ADDRESS:
ADDRESSEE: MORGAN & FINNEGAN
STREET: 345 PARK AVENUE
CITY: NEW YORK
STATE: NEW YORK
COUNTRY: USA
ZIP: 10154

COMPUTER READABLE FORM:
MEDIUM TYPE: FLOPPY DISK
COMPUTER: IBM PC COMPATIBLE
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: WORDPERFECT 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: PCT/US95/10398
FILING DATE: 15-AUG-1995
CLASSIFICATION:

PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/086,428
FILING DATE: 29 JUNE 1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/290/665
FILING DATE: 15 AUGUST 1994
ATTORNEY/AGENT INFORMATION:
NAME: RICHARD W. BORK
REGISTRATION NUMBER: 36,459
REFERENCE/DOCKET NUMBER: 2026-4116
TELECOMMUNICATION INFORMATION:
TELEPHONE: (212) 758-4800
TELEFAX: (212) 751-6849
TELEX: 421792

INFORMATION FOR SEQ ID NO: 142:
SEQUENCE CHARACTERISTICS:
LENGTH: 573 base pairs

;; TYPE: nucleic acid
;; STRANDEDNESS: single
;; TOPOLOGY: linear
;; ORIGINAL SOURCE:
;; ORGANISM: homsapieus
;; INDIVIDUAL ISOLATE: Z5
PCT-US95-10398-142

Query Match 11.6%; Score 40; DB 5; Length 573;
Best Local Similarity 100.0%; Pred. No. 7e-11;
Matches 40; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 211 CGAGGGCAGCTCTGGGCTCAGCCGCGGTACCTTGCC 250
DB 212 CGAGGGCAGCTCTGGGCTCAGCCGCGGTACCTTGCC 251

RESULT 12

US-08-290-665A-136
; Sequence 136, Application US/08290665A

; Patent No. 5882852

; GENERAL INFORMATION:

; APPLICANT: BUKH, J., MILLER, R.H. AND

; APPLICANT: PURCELL, R.H.

; TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED

; TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND

; TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS

; TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE

; TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES

; NUMBER OF SEQUENCES: 263

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: MORGAN & FINNEGAN

; STREET: 345 PARK AVENUE

; CITY: NEW YORK

; STATE: NEW YORK

; COUNTRY: USA

; ZIP: 10154

; COMPUTER READABLE FORM:

; MEDIUM TYPE: FLOPPY DISK

; COMPUTER: IBM PC COMPATIBLE

; OPERATING SYSTEM: PC-DOS/MS-DOS

; SOFTWARE: WORDPERFECT 5.1

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/08/290,665A

; FILING DATE: 15-AUG-1994

; CLASSIFICATION: 435

; ATTORNEY/AGENT INFORMATION:

; NAME: RICHARD W. BORK

; REGISTRATION NUMBER: 36,459

; REFERENCE/DOCKET NUMBER: 2026-4116

; TELECOMMUNICATION INFORMATION:

; TELEPHONE: (212) 758-4800

; TELEFAX: (212) 751-6849

; TELEX: 421792

; INFORMATION FOR SEQ ID NO: 136:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 573 base pairs

; TYPE: nucleic acid

; STRANDEDNESS: single

; TOPOLOGY: linear

; ORIGINAL SOURCE:

; ORGANISM: homsapieus

; INDIVIDUAL ISOLATE: S52

US-08-290-665A-136

Query Match 11.0%; Score 38; DB 2; Length 573;
Best Local Similarity 100.0%; Pred. No. 7.2e-10;
Matches 38; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 261 AATGAGGGCTCGGGTGGCGAGGGTGGCTCCTGTCCCC 298
DB 262 AATGAGGGCTCGGGTGGCGAGGGTGGCTCCTGTCCCC 299

RESULT 13

PCT-US95-10398-136

; Sequence 136, Application PC/TUS9510398

; GENERAL INFORMATION:

; APPLICANT: BUKH, J., MILLER, R.H. AND

; APPLICANT: PURCELL, R.H.

; TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED

; TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND

; TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS

; TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE

; TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES

; NUMBER OF SEQUENCES: 263

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: MORGAN & FINNEGAN

; STREET: 345 PARK AVENUE

; CITY: NEW YORK

; STATE: NEW YORK

; COUNTRY: USA

; ZIP: 10154

; COMPUTER READABLE FORM:

; MEDIUM TYPE: FLOPPY DISK

; COMPUTER: IBM PC COMPATIBLE

; OPERATING SYSTEM: PC-DOS/MS-DOS

; SOFTWARE: WORDPERFECT 5.1

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: PCT/US95/10398

; FILING DATE: 15-AUG-1995

; CLASSIFICATION:

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: 08/086,428

; FILING DATE: 29 JUNE 1993

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: 08/290/665

; FILING DATE: 15 AUGUST 1994

; ATTORNEY/AGENT INFORMATION:

; NAME: RICHARD W. BORK

; REGISTRATION NUMBER: 36,459

; REFERENCE/DOCKET NUMBER: 2026-4116

; TELECOMMUNICATION INFORMATION:

; TELEPHONE: (212) 758-4800

; TELEFAX: (212) 751-6849

; TELEX: 421792

; INFORMATION FOR SEQ ID NO: 136:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 573 base pairs

; TYPE: nucleic acid

; STRANDEDNESS: single

; TOPOLOGY: linear

; ORIGINAL SOURCE:

; ORGANISM: homsapieus

; INDIVIDUAL ISOLATE: S52

PCT-US95-10398-136

Query Match

Best Local Similarity 11.0%; Score 38; DB 5; Length 573;

Matches 38; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 261 AATGAGGGCTCGGGTGGCGAGGGTGGCTCCTGTCCCC 298

DB 262 AATGAGGGCTCGGGTGGCGAGGGTGGCTCCTGTCCCC 299

RESULT 14

US-08-290-665A-137

; Sequence 137, Application US/08290665A

; Patent No. 5882852

; GENERAL INFORMATION:

; APPLICANT: BUKH, J., MILLER, R.H. AND

; APPLICANT: PURCELL, R.H.

; TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED

; TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND

; TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES

; NUMBER OF SEQUENCES: 263

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: MORGAN & FINNEGAN

; STREET: 345 PARK AVENUE

; CITY: NEW YORK

; STATE: NEW YORK

; COUNTRY: USA

; ZIP: 10154

; COMPUTER READABLE FORM:

; MEDIUM TYPE: FLOPPY DISK

; COMPUTER: IBM PC COMPATIBLE

; OPERATING SYSTEM: PC-DOS/MS-DOS

; SOFTWARE: WORDPERFECT 5.1

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: PCT/US95/10398

; FILING DATE: 15-AUG-1995

; CLASSIFICATION:

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: 08/086,428

; FILING DATE: 29 JUNE 1993

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: 08/290/665

; FILING DATE: 15 AUGUST 1994

; ATTORNEY/AGENT INFORMATION:

; NAME: RICHARD W. BORK

; REGISTRATION NUMBER: 36,459

; REFERENCE/DOCKET NUMBER: 2026-4116

; TELECOMMUNICATION INFORMATION:

; TELEPHONE: (212) 758-4800

; TELEFAX: (212) 751-6849

; TELEX: 421792

; INFORMATION FOR SEQ ID NO: 136:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 573 base pairs

; TYPE: nucleic acid

; STRANDEDNESS: single

; TOPOLOGY: linear

; ORIGINAL SOURCE:

; ORGANISM: homsapieus

; INDIVIDUAL ISOLATE: S52

PCT-US95-10398-136

;; TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
;; TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
;; NUMBER OF SEQUENCES: 263
;; CORRESPONDENCE ADDRESS:
;; ADDRESSEE: MORGAN & FINNEGAN
;; STREET: 345 PARK AVENUE
;; CITY: NEW YORK
;; STATE: NEW YORK
;; COUNTRY: USA
;; ZIP: 10154
;; COMPUTER READABLE FORM:
;; MEDIUM TYPE: FLOPPY DISK
;; COMPUTER: IBM PC COMPATIBLE
;; OPERATING SYSTEM: PC-DOS/MS-DOS
;; SOFTWARE: WORDPERFECT 5.1
;; CURRENT APPLICATION DATA:
;; APPLICATION NUMBER: US/08/290,665A
;; FILING DATE: 15-AUG-1994
;; CLASSIFICATION: 435
;; ATTORNEY/AGENT INFORMATION:
;; NAME: RICHARD W. BORK
;; REGISTRATION NUMBER: 36,459
;; REFERENCE/DOCKET NUMBER: 2026-4116
;; TELECOMMUNICATION INFORMATION:
;; TELEPHONE: (212) 758-4800
;; TELEFAX: (212) 751-6849
;; TELEX: 421792
;; INFORMATION FOR SEQ ID NO: 137:
;; SEQUENCE CHARACTERISTICS:
;; LENGTH: 573 base pairs
;; TYPE: nucleic acid
;; STRANDEDNESS: single
;; TOPOLOGY: linear
;; ORGANISM: homosapiens
;; INDIVIDUAL ISOLATE: S2
US-08-290-665A-137

Query Match 10.1%; Score 35; DB 2; Length 573;
Best Local Similarity 100.0%; Pred. No. 2.4e-08;
Matches 35; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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Db 265 GAGGGCTGCGGTGGGCGAGGTGGCTCTGTGCCCC 299
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RESULT 15
US-08-290-665A-138
; Sequence 138, Application US/08290665A
; Patent No. 5882852
; GENERAL INFORMATION:
; APPLICANT: BUKH, J., MILLER, R.H. AND
; APPLICANT: PURCELL, R.H.
; TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
; TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
; TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
; TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
; TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
; NUMBER OF SEQUENCES: 263
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: MORGAN & FINNEGAN
; STREET: 345 PARK AVENUE
; CITY: NEW YORK
; STATE: NEW YORK
; COUNTRY: USA
; ZIP: 10154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: FLOPPY DISK
; COMPUTER: IBM PC COMPATIBLE
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: WORDPERFECT 5.1
; CURRENT APPLICATION DATA:

;; APPLICATION NUMBER: US/08/290,665A
;; FILING DATE: 15-AUG-1994
;; CLASSIFICATION: 435
;; ATTORNEY/AGENT INFORMATION:
;; NAME: RICHARD W. BORK
;; REGISTRATION NUMBER: 36,459
;; REFERENCE/DOCKET NUMBER: 2026-4116
;; TELECOMMUNICATION INFORMATION:
;; TELEPHONE: (212) 758-4800
;; TELEFAX: (212) 751-6849
;; TELEX: 421792
;; INFORMATION FOR SEQ ID NO: 138:
;; SEQUENCE CHARACTERISTICS:
;; LENGTH: 573 base pairs
;; TYPE: nucleic acid
;; STRANDEDNESS: single
;; TOPOLOGY: linear
;; ORGANISM: homosapiens
;; INDIVIDUAL ISOLATE: DK12
US-08-290-665A-138

Query Match 10.1%; Score 35; DB 2; Length 573;
Best Local Similarity 100.0%; Pred. No. 2.4e-08;
Matches 35; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 264 GAGGGCTGCGGTGGGCGAGGTGGCTCTGTGCCCC 298
|||||
Db 265 GAGGGCTGCGGTGGGCGAGGTGGCTCTGTGCCCC 299
|||||

Search completed: February 27, 2004, 12:16:42
Job time : 80 secs

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OM nucleic - nucleic search, using sw model

Run on: February 27, 2004, 12:10:42 ; Search time 270 Seconds
(without alignments)

4609.541 Million cell updates/sec

Title: US-09-873-224A-147

Perfect score: 345

Sequence: 1 atgagcacactcttaaac.....aaatgaccccggcaggga 345

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Gapop 60.0 , Gapext 60.0

Searched: 2353733 seqs, 180373377 residues

Word size : 0

Total number of hits satisfying chosen parameters: 4707466

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Listing first 45 summaries

Database : Published Applications NA:*

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- 2: /cgn2_6/ptodata/2/pubpna/PCT_NEW_PUB.seq:*
- 3: /cgn2_6/ptodata/2/pubpna/US06_NEW_PUB.seq:*
- 4: /cgn2_6/ptodata/2/pubpna/US06_PUBCOMB.seq:*
- 5: /cgn2_6/ptodata/2/pubpna/US07_NEW_PUB.seq:*
- 6: /cgn2_6/ptodata/2/pubpna/PCTUS_PUBCOMB.seq:*
- 7: /cgn2_6/ptodata/2/pubpna/US08_NEW_PUB.seq:*
- 8: /cgn2_6/ptodata/2/pubpna/US08_PUBCOMB.seq:*
- 9: /cgn2_6/ptodata/2/pubpna/US09A_PUBCOMB.seq:*
- 10: /cgn2_6/ptodata/2/pubpna/US09B_PUBCOMB.seq:*
- 11: /cgn2_6/ptodata/2/pubpna/US09C_PUBCOMB.seq:*
- 12: /cgn2_6/ptodata/2/pubpna/US09_NEW_PUB.seq:*
- 13: /cgn2_6/ptodata/2/pubpna/US10A_PUBCOMB.seq:*
- 14: /cgn2_6/ptodata/2/pubpna/US10B_PUBCOMB.seq:*
- 15: /cgn2_6/ptodata/2/pubpna/US10C_PUBCOMB.seq:*
- 16: /cgn2_6/ptodata/2/pubpna/US10_NEW_PUB.seq:*
- 17: /cgn2_6/ptodata/2/pubpna/US60_NEW_PUB.seq:*
- 18: /cgn2_6/ptodata/2/pubpna/US60_PUBCOMB.seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	309	89.6	309	9	US-09-851-138-49
2	296	85.8	346	10	US-09-899-046-147
3	296	85.8	346	10	US-09-878-281-147
4	43	12.5	573	10	US-09-194-949-5
5	43	12.5	831	9	US-09-851-138-65
6	31	9.0	152	9	US-09-921-397-39
7	31	9.0	234	9	US-09-921-397-41
8	31	9.0	300	14	US-10-071-867-16
9	31	9.0	310	9	US-09-921-397-114
10	31	9.0	327	9	US-09-851-138-1
11	31	9.0	339	9	US-09-921-397-115
12	31	9.0	480	14	US-10-071-867-15
13	31	9.0	540	15	US-10-150-283-2
14	31	9.0	708	15	US-10-365-620-57
15	31	9.0	750	15	US-10-365-620-53

16	31	9.0	1380	15	US-10-365-620-59	Sequence 59, Appl
17	31	9.0	1422	15	US-10-365-620-55	Sequence 55, Appl
18	31	9.0	2433	9	US-09-973-025-49	Sequence 49, Appl
19	31	9.0	2433	10	US-09-899-303-49	Sequence 49, Appl
20	31	9.0	2433	10	US-09-995-808-49	Sequence 49, Appl
21	31	9.0	2433	10	US-09-995-860-49	Sequence 49, Appl
22	31	9.0	2433	10	US-09-995-791-49	Sequence 49, Appl
23	31	9.0	9365	10	US-09-827-688-7	Sequence 7, Appl
24	31	9.0	9379	9	US-09-916-359-1	Sequence 1, Appl
25	31	9.0	9413	10	US-09-827-688-6	Sequence 6, Appl
26	31	9.0	9416	9	US-09-238-076-19	Sequence 19, Appl
27	31	9.0	9416	9	US-09-929-955-13	Sequence 13, Appl
28	31	9.0	9416	10	US-09-995-937-19	Sequence 19, Appl
29	31	9.0	9416	10	US-09-917-563-19	Sequence 19, Appl
30	31	9.0	9416	13	US-10-104-966-13	Sequence 13, Appl
31	31	9.0	9646	9	US-09-742-659-3	Sequence 3, Appl
32	31	9.0	9646	9	US-09-238-076-1	Sequence 1, Appl
33	31	9.0	9646	10	US-09-995-937-1	Sequence 1, Appl
34	31	9.0	9646	10	US-09-917-563-1	Sequence 1, Appl
35	31	9.0	10803	9	US-09-747-419-17	Sequence 17, Appl
36	31	9.0	10803	14	US-10-259-275-17	Sequence 17, Appl
37	31	9.0	12980	9	US-09-238-076-5	Sequence 5, Appl
38	31	9.0	12980	10	US-09-995-937-5	Sequence 5, Appl
39	31	9.0	12980	10	US-09-917-563-5	Sequence 5, Appl
40	29	8.4	240	14	US-10-396-964-19	Sequence 19, Appl
41	28	8.1	223	9	US-09-851-138-9	Sequence 9, Appl
42	28	8.1	499	10	US-09-899-046-151	Sequence 151, App
43	28	8.1	499	10	US-09-878-281-151	Sequence 151, App
44	28	8.1	509	10	US-09-899-046-41	Sequence 41, Appl
45	28	8.1	509	10	US-09-899-046-43	Sequence 43, Appl

ALIGNMENTS

RESULT 1

US-09-851-138-49
; Sequence 49, Application US/09851138
; Publication No. US20020183508A1
; GENERAL INFORMATION:
; APPLICANT: MAERTENS, GEERT
; STUYVER, LIEVEN
; TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
AGENTS
; NUMBER OF SEQUENCES: 207
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: ARNOLD, WHITE & DURKEE
; STREET: P.O. BOX 4433
; CITY: HOUSTON
; STATE: TEXAS
; COUNTRY: USA
; ZIP: 77210-4433
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Microsoft Word 6.0 / ASCII text output
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/851.138
; FILING DATE: 09-May-2001
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/836,075
; FILING DATE: <UNKNOWN>
; APPLICATION NUMBER: EP 94870166.9
; FILING DATE: 21 Oct 1994
; APPLICATION NUMBER: EP 95870076.7
; FILING DATE: 28 Jun 1995
; ATTORNEY/AGENT INFORMATION:
; NAME: KAMMERER, PATRICIA A.
; REGISTRATION NUMBER: 29,775
; REFERENCE/DOCKET NUMBER: INNS:004
; INFORMATION FOR SEQ ID NO: 49:

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; SEQUENCE CHARACTERISTICS:
; LENGTH: 309 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cdna
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; SEQUENCE DESCRIPTION: SEQ ID NO: 49:
US-09-851-138-49

Query Match      89.6%; Score 309; DB 9; Length 309;
Best Local Similarity 100.0%; Pred. No. 3e-152;
Matches 309; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 ATGAGCACATTCCTAAACCAACAAAGAAAAACCAAGAAACACCAACCCCGGCACAGG 60
Db 1 ATGAGCACATTCCTAAACCAACAAAGAAAAACCAAGAAACACCAACCCCGGCACAGG 60

Qy 61 ACGTTAAGTTCCTCCAGGCGCGGTGATGCTGTTGGAGTTTACGTGCTACACGACAGG 120
Db 61 ACGTTAAGTTCCTCCAGGCGCGGTGATGCTGTTGGAGTTTACGTGCTACACGACAGG 120

Qy 121 GCCCCAGTTCGGTGTGCTGAGTGCAGTGCAGCAAGACTTCGAGCGGTGCGCAACTCGCAGTA 180
Db 121 GCCCCAGTTCGGTGTGCTGAGTGCAGTGCAGCAAGACTTCGAGCGGTGCGCAACTCGCAGTA 180

Qy 181 GCGCCCAACCCATCCCAAGGCGCGCCGAAACCGAGGCGAGTCTCTGCGCTCAGCCCGGT 240
Db 181 GCGCCCAACCCATCCCAAGGCGCGCCGAAACCGAGGCGAGTCTCTGCGCTCAGCCCGGT 240

Qy 241 ACCCTTGCCCTATATCGGAATGAGGCTGCGGCTGGGAGGGTGGCTCTGTCCCCGC 300
Db 241 ACCCTTGCCCTATATCGGAATGAGGCTGCGGCTGGGAGGGTGGCTCTGTCCCCGC 300

Qy 301 GCGGCTCTC 309
Db 301 GCGGCTCTC 309

RESULT 2
US-09-899-046-147
; Sequence 147, Application US/09899046
; Publication No. US20030008274A1
; GENERAL INFORMATION:
; APPLICANT:
; TITLE OF INVENTION: New sequences of hepatitis C virus
; TITLE OF INVENTION: genotypes for diagnosis, prophylaxis and therapy.
; NUMBER OF SEQUENCES: 270
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25 (EPO)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/899,046
; FILING DATE:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/362,455
; FILING DATE:
; INFORMATION FOR SEQ ID NO: 147:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 346 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cdna
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 1..346
; QUERY MATCH
; BEST LOCAL SIMILARITY 85.8%; Score 296; DB 10; Length 346;
; MATCHES 296; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
; QY 50 CCGGCCACAGGACGTTAAGTTCCTCCAGGCGCGGTGATGCTGTTGGAGTTTACGTGCT 109
; DB 51 CCGGCCACAGGACGTTAAGTTCCTCCAGGCGCGGTGATGCTGTTGGAGTTTACGTGCT 110

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; NAME/KEY: mat peptide
; LOCATION: 1..342
US-09-899-046-147

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Best Local Similarity 100.0%; Pred. No. 2e-145;
Matches 296; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db 51 CCGGCCACAGGACGTTAAGTTCCTCCAGGCGCGGTGATGCTGTTGGAGTTTACGTGCT 110

Qy 110 ACCACGACAGGCGCGGTGATGCTGTTGGAGTTTACGTGCTGCGCAAGACTTCCGAGCGGTGCA 169
Db 111 ACCACGACAGGCGCGGTGATGCTGTTGGAGTTTACGTGCTGCGCAAGACTTCCGAGCGGTGCA 170

Qy 170 ACTTCGAGTAGGCGCAACCCATCCAGGCGCGGTGATGCTGCGCAAGACTTCCGAGCGGTGCA 229
Db 171 ACTTCGAGTAGGCGCAACCCATCCAGGCGCGGTGATGCTGCGCAAGACTTCCGAGCGGTGCA 230

Qy 230 TCAGCCCGGTGATGCTGTTGGAGTTTACGTGCTGCGCAAGACTTCCGAGCGGTGCA 289
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Qy 290 CTGTGTCCTCCAGGCGGTGCTGCGCGGTGCTGCGCGGTGCTGCGCGGTGCTGCGCGGTGCT 345
Db 291 CTGTGTCCTCCAGGCGGTGCTGCGCGGTGCTGCGCGGTGCTGCGCGGTGCTGCGCGGTGCT 346

RESULT 3
US-09-878-281-147
; Sequence 147, Application US/09878281
; Publication No. US20030032005A1
; GENERAL INFORMATION:
; APPLICANT:
; TITLE OF INVENTION: New sequences of hepatitis C virus
; TITLE OF INVENTION: genotypes for diagnosis, prophylaxis and therapy.
; NUMBER OF SEQUENCES: 270
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25 (EPO)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/878,281
; FILING DATE:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/362,455
; FILING DATE:
; INFORMATION FOR SEQ ID NO: 147:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 346 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cdna
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 1..346
; FEATURE:
; NAME/KEY: mat peptide
; LOCATION: 1..342
US-09-878-281-147

Query Match      85.8%; Score 296; DB 10; Length 346;
Best Local Similarity 100.0%; Pred. No. 2e-145;
Matches 296; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 50 CCGGCCACAGGACGTTAAGTTCCTCCAGGCGCGGTGATGCTGTTGGAGTTTACGTGCT 109
Db 51 CCGGCCACAGGACGTTAAGTTCCTCCAGGCGCGGTGATGCTGTTGGAGTTTACGTGCT 110

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QY 110 ACCACGAGGGGCCCCCAGTTGGTGTGCTGAGTCCGCAAGACTTCCGAGCGGTGCGA 169
Db 111 ACCACGAGGGGCCCCCAGTTGGTGTGCTGAGTCCGCAAGACTTCCGAGCGGTGCGA 170
QY 170 ACCTCGAGTAGGCGCCCAACCCATCCCGAGGGCGCGCAACCGAGGCGAGGTCCCTGGGC 229
Db 171 ACCTCGAGTAGGCGCCCAACCCATCCCGAGGGCGCGCGCAACCGAGGCGAGGTCCCTGGGC 230
QY 230 TCAGCGCCGGGTACCTTGGCCCTTATATGGAATGAGGGCTGCGGGTGGCGAGGGTGGCT 289
Db 231 TCAGCGCCGGGTACCTTGGCCCTTATATGGAATGAGGGCTGCGGGTGGCGAGGGTGGCT 290
QY 290 CCGTCCCGGGCGGCTCTGCGCGCTGCGGGCGCGCAATGACCCCGGCGGCGAGGA 345
Db 291 CCGTCCCGGGCGGCTCTGCGCGCTGCGGGCGCGCAATGACCCCGGCGGCGAGGA 346

RESULT 4

US-09-194-949-5
; Sequence 5, Application US/09194949
; Publication No. US20030053987A1
; GENERAL INFORMATION:
; APPLICANT: Merck & Co., Inc.
; APPLICANT: Donnelly, John J.
; APPLICANT: Fu, Tong-Ming
; APPLICANT: Liu, Margaret A.
; APPLICANT: Shiver, John W.
; TITLE OF INVENTION: SYNTHETIC HEPATITIS C GENES
; FILE REFERENCE: 19732YP
; CURRENT APPLICATION NUMBER: US/09/194,949
; CURRENT FILING DATE: 2000-02-17
; PRIOR APPLICATION NUMBER: PCT/US97/09884
; PRIOR FILING DATE: 1997-06-06
; PRIOR APPLICATION NUMBER: 60/020,494
; PRIOR FILING DATE: 1996-06-11
; PRIOR APPLICATION NUMBER: 60/033,534
; PRIOR FILING DATE: 1996-12-20
; NUMBER OF SEQ ID NOS: 25
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 5
; LENGTH: 573
; TYPE: DNA
; ORGANISM: Hepatitis C Virus
US-09-194-949-5

Query Match 12.5%; Score 43; DB 10; Length 573;
Best Local Similarity 100.0%; Pred. No. 1.9e-12;
Matches 43; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 211 CCGAGGCGAGTCTCTGGGCTCAGCCGGGTACCCCTTGGCCCT 253
Db 212 CCGAGGCGAGTCTCTGGGCTCAGCCGGGTACCCCTTGGCCCT 254

RESULT 5

US-09-851-138-65
; Sequence 65, Application US/09851138
; Publication No. US20020183509A1
; GENERAL INFORMATION:
; APPLICANT: MAERTENS, GEERT
; STUYVER, LIEVEN
; TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
; AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
; AGENTS
; NUMBER OF SEQUENCES: 207
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: ARNOLD, WHITE & DURKEE
; STREET: P.O. BOX 4433
; CITY: HOUSTON
; STATE: TEXAS
; COUNTRY: USA
; ZIP: 77210-4433

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Microsoft Word 6.0 / ASCII text output
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/851,138
FILING DATE: 09-May-2001
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/836,075
FILING DATE: <Unknown>
APPLICATION NUMBER: EP 94870166.9
FILING DATE: 21 Oct 1994
APPLICATION NUMBER: EP 95870076.7
FILING DATE: 28 Jun 1995
ATTORNEY/AGENT INFORMATION:
NAME: KAMMERER, PATRICIA A.
REGISTRATION NUMBER: 29,775
REFERENCE/DOCKET NUMBER: INNS:004

SEQUENCE CHARACTERISTICS:
LENGTH: 831 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
HYPOTHETICAL: NO
ANTI-SENSE: NO
SEQUENCE DESCRIPTION: SEQ ID NO: 65:
US-09-851-138-65

Query Match 12.5%; Score 43; DB 9; Length 831;
Best Local Similarity 100.0%; Pred. No. 1.8e-12;
Matches 43; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 211 CCGAGGCGAGTCTCTGGGCTCAGCCGGGTACCCCTTGGCCCT 253
Db 227 CCGAGGCGAGTCTCTGGGCTCAGCCGGGTACCCCTTGGCCCT 269

RESULT 6

US-09-921-397-39
; Sequence 39, Application US/09921397
; Patent No. US20020151484A1
; GENERAL INFORMATION:
; APPLICANT: HYBRIGENICS
; TITLE OF INVENTION: SID nucleic acids and polypeptides selected from a
; TITLE OF INVENTION: pathogenic strain of the hepatitis C virus and
; TITLE OF INVENTION: applications thereof
; FILE REFERENCE: B4809A - JAZ
; CURRENT APPLICATION NUMBER: US/09/921,397
; CURRENT FILING DATE: 2001-08-02
; PRIOR APPLICATION NUMBER: EP 00402225.7
; PRIOR FILING DATE: 2000-08-03
; NUMBER OF SEQ ID NOS: 156
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 39
; LENGTH: 152
; TYPE: DNA
; ORGANISM: Hepatitis C virus
US-09-921-397-39

Query Match 9.0%; Score 31; DB 9; Length 152;
Best Local Similarity 100.0%; Pred. No. 4.2e-06;
Matches 31; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 223 CCGGCGTACGCGGGGTACCCCTTGGCCCT 253
Db 120 CCGGCGTACGCGGGGTACCCCTTGGCCCT 150

RESULT 7

US-09-921-397-41


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; Sequence 41, Application US/09921397
; Patent No. US20020151484A1
; GENERAL INFORMATION:
; APPLICANT: HYBRIGENICS
; TITLE OF INVENTION: STD nucleic acids and polypeptides selected from a
; TITLE OF INVENTION: pathogenic strain of the hepatitis C virus and
; TITLE OF INVENTION: applications thereof
; FILE REFERENCE: B4809A - JAZ
; CURRENT APPLICATION NUMBER: US/09/921.397
; CURRENT FILING DATE: 2001-08-02
; PRIOR APPLICATION NUMBER: EP 00402225.7
; PRIOR FILING DATE: 2000-08-03
; NUMBER OF SEQ ID NOS: 156
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 41
; LENGTH: 234
; TYPE: DNA
; ORGANISM: Hepatitis C virus
US-09-921-397-41

Query Match          9.0%; Score 31; DB 9; Length 234;
Best Local Similarity 100.0%; Pred. No. 4.1e-06;
Matches 31; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 223 CCTGGGCTCAGCCGGGTACCTTGCCCT 253
Db 186 CCTGGGCTCAGCCGGGTACCTTGCCCT 216

RESULT 8
US-10-071-867-16
; Sequence 16, Application US/10071867
; Publication No. US20030166267A1
; GENERAL INFORMATION:
; APPLICANT: CreGene Inc.
; TITLE OF INVENTION: METHOD FOR IMPROVING GENETIC STABILITY OF FOREIGN INSERT
; TITLE OF INVENTION: NUCLEOTIDE SEQUENCE IN RECOMBINANT SINGLE-STRANDED RNA VIRUS
; FILE REFERENCE: CreGene-USA-1
; CURRENT APPLICATION NUMBER: US/10/071.867
; CURRENT FILING DATE: 2002-02-08
; PRIOR APPLICATION NUMBER: KR 2001-6229
; PRIOR FILING DATE: 2001-02-08
; NUMBER OF SEQ ID NOS: 95
; SOFTWARE: KopatentIn 1.71
; SEQ ID NO 16
; LENGTH: 300
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: HCV core-100
US-10-071-867-16

Query Match          9.0%; Score 31; DB 14; Length 300;
Best Local Similarity 100.0%; Pred. No. 4e-06;
Matches 31; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 223 CCTGGGCTCAGCCGGGTACCTTGCCCT 253
Db 224 CCTGGGCTCAGCCGGGTACCTTGCCCT 254

RESULT 9
US-09-921-397-114
; Sequence 114, Application US/09921397
; Patent No. US20020151484A1
; GENERAL INFORMATION:
; APPLICANT: HYBRIGENICS
; TITLE OF INVENTION: SID nucleic acids and polypeptides selected from a
; TITLE OF INVENTION: pathogenic strain of the hepatitis C virus and
; TITLE OF INVENTION: applications thereof
; FILE REFERENCE: B4809A - JAZ
; CURRENT APPLICATION NUMBER: US/09/921.397
; CURRENT FILING DATE: 2001-08-02
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; PRIOR APPLICATION NUMBER: EP 00402225.7
; PRIOR FILING DATE: 2000-08-03
; NUMBER OF SEQ ID NOS: 156
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 114
; LENGTH: 310
; TYPE: DNA
; ORGANISM: Hepatitis C virus
US-09-921-397-114

Query Match          9.0%; Score 31; DB 9; Length 310;
Best Local Similarity 100.0%; Pred. No. 3.9e-06;
Matches 31; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 223 CCTGGGCTCAGCCGGGTACCTTGCCCT 253
Db 264 CCTGGGCTCAGCCGGGTACCTTGCCCT 294

RESULT 10
US-09-851-138-1
; Sequence 1, Application US/09851138
; Publication No. US20020183508A1
; GENERAL INFORMATION:
; APPLICANT: MAERTENS, GEERT
; APPLICANT: STUYVER, LIEVEN
; TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
; AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
; AGENTS
; NUMBER OF SEQUENCES: 207
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: ARNOLD, WHITE & DURKEE
; STREET: P.O. BOX 4433
; CITY: HOUSTON
; STATE: TEXAS
; COUNTRY: USA
; ZIP: 77210-4433
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Microsoft Word 6.0 / ASCII text output
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/851.138
; FILING DATE: 09-May-2001
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/836,075
; FILING DATE: <Unknown>
; APPLICATION NUMBER: EP 94870166.9
; FILING DATE: 21 Oct 1994
; APPLICATION NUMBER: EP 95870076.7
; FILING DATE: 28 Jun 1995
; ATTORNEY/AGENT INFORMATION:
; NAME: KAMMERER, PATRICIA A.
; REGISTRATION NUMBER: 29,775
; REFERENCE/DOCKET NUMBER: INNS:004
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 327 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; SEQUENCE DESCRIPTION: SEQ ID NO: 1:
US-09-851-138-1

Query Match          9.0%; Score 31; DB 9; Length 327;
Best Local Similarity 100.0%; Pred. No. 3.9e-06;
Matches 31; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 211 CCGAGGGCAGGTCTGGGCTCAGCCGGGTA 241
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Db 212 CCGGGGCTCCTGGGCTCAGCCCGGTA 242

RESULT 11

US-09-921-397-115
; Sequence 115, Application US/09921397
; Patent No. US20020151484A1
; GENERAL INFORMATION:
; APPLICANT: HYBRIGENICS
; TITLE OF INVENTION: SID nucleic acids and polypeptides selected from a
; TITLE OF INVENTION: pathogenic strain of the hepatitis C virus and
; TITLE OF INVENTION: applications thereof
; FILE REFERENCE: B4809A - JAZ
; CURRENT APPLICATION NUMBER: US/09/921,397
; CURRENT FILING DATE: 2001-08-02
; PRIOR APPLICATION NUMBER: EP 00402225.7
; PRIOR FILING DATE: 2000-08-03
; NUMBER OF SEQ ID NOS: 156
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 115
; LENGTH: 339
; TYPE: DNA
; ORGANISM: Hepatitis C virus
US-09-921-397-115

Query Match 9.0%; Score 31; DB 9; Length 339;

Best Local Similarity 100.0%; Pred. No. 3.9e-06; Indels 0; Gaps 0;
Matches 31; Conservative 0; Mismatches 0

Qy 223 CCTGGGCTCAGCCGGGTACCTTGGCCCT 253

Db 224 CCTGGGCTCAGCCGGGTACCTTGGCCCT 254

RESULT 12

US-10-071-867-15
; Sequence 15, Application US/10071867
; Publication No. US20030166267A1
; GENERAL INFORMATION:
; APPLICANT: CreaGene Inc.
; TITLE OF INVENTION: METHOD FOR IMPROVING GENETIC STABILITY OF FOREIGN INSERT
; TITLE OF INVENTION: NUCLEOTIDE SEQUENCE IN RECOMBINANT SINGLE-STRANDED RNA VIRUS
; FILE REFERENCE: CreaGene-USA-1
; CURRENT APPLICATION NUMBER: US/10/071,867
; CURRENT FILING DATE: 2002-02-08
; PRIOR APPLICATION NUMBER: KR 2001-6229
; PRIOR FILING DATE: 2001-02-08
; NUMBER OF SEQ ID NOS: 95
; SOFTWARE: KopatentIn 1.71
; SEQ ID NO 15
; LENGTH: 480
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: HCV core-160
US-10-071-867-15

Query Match 9.0%; Score 31; DB 14; Length 480;

Best Local Similarity 100.0%; Pred. No. 3.8e-06; Indels 0; Gaps 0;
Matches 31; Conservative 0; Mismatches 0

Qy 223 CCTGGGCTCAGCCGGGTACCTTGGCCCT 253

Db 224 CCTGGGCTCAGCCGGGTACCTTGGCCCT 254

RESULT 13

US-10-150-283-2
; Sequence 2, Application US/10150283
; Publication No. US20030219407A1
; GENERAL INFORMATION:
; APPLICANT: Ding, Shou-wei

; APPLICANT: Li, Hong-wei
; APPLICANT: Li, Wan-xiang
; APPLICANT: The Regents of the University of California
; TITLE OF INVENTION: RNA Silencing in Animals as an Antiviral Defense
; FILE REFERENCE: 023070-1241000S
; CURRENT APPLICATION NUMBER: US/10/150,283
; CURRENT FILING DATE: 2002-05-15
; NUMBER OF SEQ ID NOS: 2
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2
; LENGTH: 540
; TYPE: RNA
; ORGANISM: Hepatitis C virus
; FEATURE:
; OTHER INFORMATION: F protein
US-10-150-283-2

Query Match 9.0%; Score 31; DB 15; Length 540;

Best Local Similarity 80.6%; Pred. No. 3.8e-06; Indels 0; Gaps 0;
Matches 25; Conservative 6; Mismatches 0

Qy 223 CCTGGGCTCAGCCGGGTACCTTGGCCCT 253

Db 224 CCUGGGCUCAGCCCGGUAACCCUUGGCCCU 254

RESULT 14

US-10-365-620-57
; Sequence 57, Application US/10365620
; Publication No. US20040001853A1
; GENERAL INFORMATION:
; APPLICANT: George, Rajan
; APPLICANT: Tyrell, Lorne
; APPLICANT: No. US20040001853A1, Antoine
; TITLE OF INVENTION: Chimeric Antigens for Eliciting An Immune Response
; FILE REFERENCE: 656.0016
; CURRENT APPLICATION NUMBER: US/10/365,620
; CURRENT FILING DATE: 2003-02-13
; PRIOR APPLICATION NUMBER: US60/423,578
; PRIOR FILING DATE: 2003-11-05
; PRIOR APPLICATION NUMBER: 60/390,564
; PRIOR FILING DATE: 2002-06-20
; NUMBER OF SEQ ID NOS: 76
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 57
; LENGTH: 708
; TYPE: DNA
; ORGANISM: HCV Core
US-10-365-620-57

Query Match 9.0%; Score 31; DB 15; Length 708;

Best Local Similarity 100.0%; Pred. No. 3.7e-06; Indels 0; Gaps 0;
Matches 31; Conservative 0; Mismatches 0

Qy 223 CCTGGGCTCAGCCGGGTACCTTGGCCCT 253

Db 314 CCTGGGCTCAGCCGGGTACCTTGGCCCT 344

RESULT 15

US-10-365-620-53
; Sequence 53, Application US/10365620
; Publication No. US20040001853A1
; GENERAL INFORMATION:
; APPLICANT: George, Rajan
; APPLICANT: Tyrell, Lorne
; APPLICANT: No. US20040001853A1, Antoine
; TITLE OF INVENTION: Chimeric Antigens for Eliciting An Immune Response
; FILE REFERENCE: 656.0016
; CURRENT APPLICATION NUMBER: US/10/365,620
; CURRENT FILING DATE: 2003-02-13
; PRIOR APPLICATION NUMBER: US60/423,578
; PRIOR FILING DATE: 2003-11-05

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; PRIOR APPLICATION NUMBER: 60/390,564
; PRIOR FILING DATE: 2002-06-20
; NUMBER OF SEQ ID NOS: 76
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 53
; LENGTH: 750
; TYPE: DNA
; ORGANISM: ORF of HCV Core Protein
US-10-365-620-53

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Query Match          9.0%; Score 31; DB 15; Length 750;
Best Local Similarity 100.0%; Pred. No. 3.6e-06;
Matches 31; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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QY 223 CCTGGGCTCAGCCCGGGTACCCCTTGGCCCT 253
    |||||||
Db 314 CTGGGCTCAGCCCGGGTACCCCTTGGCCCT 344

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Search completed: February 27, 2004, 13:17:55
Job time : 270 secs

GenCore version 5.1.6
Copyright (c) 1993 - 2004 Compugen Ltd.

OM nucleic - protein search, using frame_plus_n2p model

Run on: February 25, 2004, 01:11:16 ; Search time 17.5 Seconds
(without alignments)
2035.538 Million cell updates/sec

Title: US-09-873-224A-147

Perfect score: 639

Sequence: 1 atgagcacattcttaaac.....aaatgaccccgggcagga 345

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Ygapop 10.0 , Ygapext 0.5
Fgapop 6.0 , Fgapext 7.0
Delop 6.0 , Delext 7.0

Searched: 389414 seqs, 51625971 residues

Total number of hits satisfying chosen parameters: 778828

Minimum DB seq length: 0

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Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

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-LOOPEXT=0 -UNITS=bits -START=1 -END=1 -MATRIX=blosum62 -TRANS=human40.cdi
-LIST=45 -DOALIGN=200 -THR SCORE=pct -THR MAX=100 -THR MIN=0 -ALIGN=15
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-DEV TIMEOUT=120 -WARN TIMEOUT=30 -THREADS=1 -XGAPOP=10 -XGAPEXT=0.5 -FGAPOP=6
-FGAPEXT=7 -YGAPOP=10 -YGAPEXT=0.5 -DELOP=6 -DELEXT=7

Database : Issued Patents AA.*

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	608	95.1	115	3	US-08-836-075A-50
2	588	92.0	191	2	US-08-290-665A-187
3	588	92.0	191	2	US-08-290-665A-188
4	588	92.0	191	2	US-08-290-665A-190
5	588	92.0	191	5	PCT-US95-10398-187
6	588	92.0	191	5	PCT-US95-10398-188
7	588	92.0	191	5	PCT-US95-10398-189
8	587	91.9	191	2	US-08-290-665A-189
9	587	91.9	191	5	PCT-US95-10398-189
10	574	89.8	191	2	US-08-290-665A-192
11	574	89.8	191	2	US-08-290-665A-193
12	574	89.8	191	2	US-08-290-665A-195

13	574	89.8	191	5	PCT-US95-10398-192	Sequence 192, App
14	574	89.8	191	5	PCT-US95-10398-193	Sequence 193, App
15	574	89.8	191	5	PCT-US95-10398-195	Sequence 195, App
16	571	89.4	319	3	US-08-836-075A-12	Sequence 12, Appl
17	571	89.4	319	4	US-08-836-075A-12	Sequence 199, App
18	571	89.4	319	4	US-08-836-075A-12	Sequence 199, App
19	570	89.2	191	2	US-08-290-665A-196	Sequence 196, App
20	570	89.2	191	5	PCT-US95-10398-196	Sequence 196, App
21	569	89.0	450	4	US-08-836-075A-197	Sequence 197, App
22	569	89.0	450	4	US-08-836-075A-197	Sequence 197, App
23	569	89.0	2894	2	US-08-974-690C-181	Sequence 181, App
24	569	89.0	2894	2	US-08-974-690C-181	Sequence 23, Appl
25	569	89.0	2894	2	US-08-974-690C-181	Sequence 23, Appl
26	569	89.0	2894	2	US-08-974-690C-181	Sequence 23, Appl
27	569	89.0	2894	2	US-08-974-690C-181	Sequence 23, Appl
28	568	88.9	182	4	US-10-104-966-2	Sequence 23, Appl
29	568	88.9	191	2	US-08-290-665A-156	Sequence 156, App
30	568	88.9	191	2	US-08-290-665A-156	Sequence 157, App
31	568	88.9	191	2	US-08-290-665A-158	Sequence 158, App
32	568	88.9	191	2	US-08-290-665A-159	Sequence 159, App
33	568	88.9	191	2	US-08-290-665A-160	Sequence 160, App
34	568	88.9	191	2	US-08-290-665A-191	Sequence 191, App
35	568	88.9	191	2	US-08-290-665A-191	Sequence 191, App
36	568	88.9	191	3	US-08-380-160-3	Sequence 3, Appl
37	568	88.9	191	5	PCT-US95-10398-156	Sequence 156, App
38	568	88.9	191	5	PCT-US95-10398-157	Sequence 157, App
39	568	88.9	191	5	PCT-US95-10398-158	Sequence 158, App
40	568	88.9	191	5	PCT-US95-10398-159	Sequence 159, App
41	568	88.9	191	5	PCT-US95-10398-160	Sequence 160, App
42	568	88.9	191	5	PCT-US95-10398-191	Sequence 191, App
43	568	88.9	191	5	PCT-US95-10398-197	Sequence 197, App
44	568	88.9	319	4	US-08-836-075A-50	Sequence 217, App
45	568	88.9	319	4	US-08-836-075A-50	Sequence 217, App

ALIGNMENTS

RESULT 1

US-08-836-075A-50
; Sequence 50, Application US/08836075A
; Patent No. 6180768

; GENERAL INFORMATION:

; APPLICANT: MAERTENS, GEERT

; APPLICANT: STUYVER, LIEVEN

; TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES

; TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC

; NUMBER OF SEQUENCES: 207

; CORRESPONDENCE ADDRESSES:

; ADDRESSEE: ARNOLD, WHITE & DURKEE

; STREET: P.O. BOX 4433

; CITY: HOUSTON

; STATE: TEXAS

; COUNTRY: USA

; ZIP: 77210-4433

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disk

; COMPUTER: IBM PC compatible

; OPERATING SYSTEM: PC-DOS/MS-DOS

; SOFTWARE: Microsoft Word 6.0 / ASCII text output

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/08/836,075A

; FILING DATE: 21 Apr 1997

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: PCT/EP95/04155

; FILING DATE: 23 Oct 1995

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: EP 94870166.9

; FILING DATE: 21 Oct 1994

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: EP 95870076.7

; FILING DATE: 28 Jun 1995

; ATTORNEY/AGENT INFORMATION:

```

; NAME: KAMMERER, PATRICIA A.
; REGISTRATION NUMBER: 29,775
; REFERENCE/DOCKET NUMBER: INNS:004
; INFORMATION FOR SEQ ID NO: 50:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 115 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; US-08-836-075A-50

Alignment Scores:
Pred. No.: 3,66e-50 Length: 115
Score: 608.00 Matches: 114
Percent Similarity: 99.13% Conservative: 0
Best Local Similarity: 99.13% Mismatches: 1
Query Match: 95.15% Indels: 1
DB: 3 Gaps: 0

US-09-873-224A-147 (1-345) x US-08-836-075A-50 (1-115)

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Db 21 AspValLysPheProGlyGlyGlyGlnLeValGlyGlyValLysValLeuProArgArg 40
Qy 120 GGGCCCCAGTTGGGTGGTGCATGTCGCGCAGACTTCCGAGCGGTGCGAACTCGCAGT 179
Db 41 GlyProGlnLeuGlyValArgAlaValArgLysThrSerGluArgSerGlnProArgSer 60
Qy 180 AGCGCGCAACCCATCCCGAGGCGCGCGAACCAGAGGCGAGTCTCTGGCTCAGCCCGG 239
Db 61 ArgArgGlnProlleProArgAlaArgThrGluGlyArgSerTrpAlaGlnProGly 80
Qy 240 TACCTTGGCCCCATATATGGGAATGAGGCTGCGGGTGGCGAGGTGGCTCCTGTCCCCG 299
Db 81 TyrProTrpProLeuTyrGlyAsnGluGlyCysGlyTrpAlaGlyTrpLeuLeuSerPro 100
Qy 300 CGCGGCTCTGCGCCGTGCTGGGGGCCCAATGACCCCGCGCCAGG 344
Db 101 ArgGlySerArgProSerTrpGlyProAsnAspProArgArgArg 115

RESULT 2
US-08-290-665A-187
; Sequence 187, Application US/08290665A
; Patent No. 5882852
; GENERAL INFORMATION:
; APPLICANT: BURKH, J., MILLER, R.H. AND
; APPLICANT: PURCELL, R.H.
; TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
; TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
; TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
; TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
; TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
; NUMBER OF SEQUENCES: 263
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: MORGAN & FINNEGAN
; STREET: 345 PARK AVENUE
; CITY: NEW YORK
; STATE: NEW YORK
; COUNTRY: USA
; ZIP: 10154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: FLOPPY DISK
; COMPUTER: IBM PC COMPATIBLE
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: WORDPERFECT 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/290,665A
; FILING DATE: 15-AUG-1994

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; ZIP: 10154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: FLOPPY DISK
; COMPUTER: IBM PC COMPATIBLE
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: WORDPERFECT 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/290,665A
; FILING DATE: 15-AUG-1994
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: RICHARD W. BORK
; REGISTRATION NUMBER: 36,459
; REFERENCE/DOCKET NUMBER: 2026-4116
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212) 751-6800
; TELEFAX: (212) 751-6849
; TELEX: 421792
; INFORMATION FOR SEQ ID NO: 188:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 191 amino acids
; TYPE: amino acid
; STRANDEDNESS: unknown
; TOPOLOGY: unknown
; ORIGINAL SOURCE:
; ORGANISM: homosapiens
; INDIVIDUAL ISOLATE: S52
; US-08-290-665A-188

Alignment Scores:
Pred. No.: 3.19e-48 Length: 191
Score: 588.00 Matches: 108
Percent Similarity: 96.52% Conservative: 3
Best Local Similarity: 93.91% Mismatches: 4
Query Match: 92.02% Indels: 1
DB: 2 Gaps: 0

US-09-873-224A-147 (1-345) x US-08-290-665A-188 (1-191)

Qy 1 ATGAGCACATCTCTAAACCAACAAAGAAACCAACAAACACCAA-CCCGGCGCACAG 59
Db 1 MetSerThrLeuProLysProGlnArgLysThrLysArgAsnThrIleArgArgProGln 20
Qy 60 GACGTTAAGTTCACAGCGCGGTGAGATGTTGGTGGAGTTTACGTCTACCAACGAGG 119
Db 21 AspValLysPheProGlyGlyGlnIleValGlyValTyrValLeuProArgArg 40
Qy 120 GGCCCCCAGTTGGGTGCGTGCAGTCCGCAAGACTTCCGAGCGGTCCGCAACCTCGCAGT 179
Db 41 GlyProArgLeuGlyValArgAlaThrArgLysThrSerGluArgSerGlnProArgGly 60
Qy 180 AGGCGCCCAACCATCCCGAGCGCGCGCGAGACCGAGGCGCAGTCTCGGGCTCAGCCCGGG 239
Db 61 ArgArgGlnProIleProLysAlaArgArgSerGluGlyArgSerTrpAlaGlnProGly 80
Qy 240 TACCTTCGCCCTATATGCAATCAGGCGTCCGGGTGCGGAGGTGCTCTGTCGCCG 299
Db 81 TyrProTrpProLeuTyrGlyAsnGluGlyCysGlyTrpAlaGlyTrpLeuLeuSerPro 100
Qy 300 CGCGGCTCTCGCGTCTGGGGGCCAAATGACCCCGCGCAGG 344
Db 101 ArgGlySerArgProSerTrpGlyProAsnAspProArgArgArg 115

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RESULT 4

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US-08-290-665A-190
; Sequence 190, Application US/08290665A
; Patent No. 5882852
; GENERAL INFORMATION:
; APPLICANT: BUKH, J., MILLER, R.H. AND
; APPLICANT: PURCELL, R.H.
; TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
; TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
; TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS

```

```

; TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
; TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
; NUMBER OF SEQUENCES: 263
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: MORGAN & FINNEGAN
; STREET: 345 PARK AVENUE
; CITY: NEW YORK
; STATE: NEW YORK
; COUNTRY: USA
; ZIP: 10154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: FLOPPY DISK
; COMPUTER: IBM PC COMPATIBLE
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: WORDPERFECT 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/290,665A
; FILING DATE: 15-AUG-1994
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: RICHARD W. BORK
; REGISTRATION NUMBER: 36,459
; REFERENCE/DOCKET NUMBER: 2026-4116
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212) 751-6800
; TELEFAX: (212) 751-6849
; TELEX: 421792
; INFORMATION FOR SEQ ID NO: 190:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 191 amino acids
; TYPE: amino acid
; STRANDEDNESS: unknown
; TOPOLOGY: unknown
; ORIGINAL SOURCE:
; ORGANISM: homosapiens
; INDIVIDUAL ISOLATE: DK12
; US-08-290-665A-190

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Alignment Scores:

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Pred. No.: 3.19e-48 Length: 191
Score: 588.00 Matches: 108
Percent Similarity: 96.52% Conservative: 3
Best Local Similarity: 93.91% Mismatches: 4
Query Match: 92.02% Indels: 1
DB: 2 Gaps: 0

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US-09-873-224A-147 (1-345) x US-08-290-665A-190 (1-191)

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Qy 1 ATGAGCACATCTCTAAACCAACAAAGAAACCAACAAACACCAA-CCCGGCGCACAG 59
Db 1 MetSerThrLeuProLysProGlnArgLysThrLysArgAsnThrIleArgArgProGln 20
Qy 60 GACGTTAAGTTCACAGCGCGGTGAGATGTTGGTGGAGTTTACGTCTACCAACGAGG 119
Db 21 AspValLysPheProGlyGlyGlnIleValGlyValTyrValLeuProArgArg 40
Qy 120 GGCCCCCAGTTGGGTGCGTGCAGTCCGCAAGACTTCCGAGCGGTCCGCAACCTCGCAGT 179
Db 41 GlyProArgLeuGlyValArgAlaThrArgLysThrSerGluArgSerGlnProArgGly 60
Qy 180 AGGCGCCCAACCATCCCGAGCGCGCGCGAGACCGAGGCGCAGTCTCGGGCTCAGCCCGGG 239
Db 61 ArgArgGlnProIleProLysAlaArgArgSerGluGlyArgSerTrpAlaGlnProGly 80
Qy 240 TACCTTCGCCCTATATGCAATCAGGCGTCCGGGTGCGGAGGTGCTCTGTCGCCG 299
Db 81 TyrProTrpProLeuTyrGlyAsnGluGlyCysGlyTrpAlaGlyTrpLeuLeuSerPro 100
Qy 300 CGCGGCTCTCGCGTCTGGGGGCCAAATGACCCCGCGCAGG 344
Db 101 ArgGlySerArgProSerTrpGlyProAsnAspProArgArgArg 115

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RESULT 5

US-09-873-224A-147 (1-345) x PCT-US95-10398-188 (1-191)

Qy 1 ATGAGCACACTTCTTAACCAACAAGAATAAACACCACAA-CCCCGGCCACAG 59
 |||||
Db 1 MetSerThrLeuProIysProGlnArgLysThrLysArganThrIleArGaArgPProGIn 20
 |||||

Qy 60 GACGTTAAGTTCCCAGGGCGGGTCAGATCCTTGCTGGAGATTACGTGTACCAACGCAGG 119
 |||||

Db 21 AspValIysPheProGLYgLYcLyGlnIleValGLYGlyValTyRValLeuProArGaArg 40
 |||||

Qy 120 GGCCCCCAGCTTGGGTGTCGTGCATGCGCGTAGACTCCGAGCGGTGCGCACTCCAGT 179
 ||:::||

Db 41 GlyProArgLeuGLYVAlARgaLaThrArgLysThrSerGUarGSerGINPrOArRGly 60
 |||||

Qy 180 AGSGCGCAACCATCCCCAGGCGCGCGCGAACCCAGAGGCGAGTCTCGGGTTCAGCCCGG 239
 ||:::||

Db 61 ArgArgGlnPrOIleproLYsaLaARGserGLUGlyArGSerTrPaLaGlInPrOGly 80
 |||||

Qy 240 TACCTTGGCCCTTATATGGGAATGAGGGCTGCGGGTGGCAGAGGTGGCTCTGTCCCGG 299
 |||||

Db 81 TyrProTriProLeuTyR-GLyAsnGLUGlyCySGLYTrrPaLaGLYTrrPeuleuSerPro 100
 |||||

Qy 300 CGCGGCTCTCGCCGTCTGTGGGGCCCAAATGACCCCGCGCGAGG 344
 |||||

Db 101 ArqGLyseArqProSerTriqlvProAsnAspProArGaArgAg 115
 |||||

```

RESULT 7
PCT-US95-10398-190
; Sequence 190, Application PC/TUS9510398
; GENERAL INFORMATION:
; APPLICANT: BUXH, J., MILLER, R.H. AND
; APPLICANT: PURCELL, R.H.
; TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
; TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
; TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
; TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
; TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
; NUMBER OF SEQUENCES: 263
; CORRESPONDENCE ADDRESS:

```

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; STRANDEDNESS: unknown
; TOPOLOGY: unknown
; ORIGINAL SOURCE:
; ORGANISM: homosapiens
; INDIVIDUAL ISOLATE: DK12
PCT-US95-10398-190

Alignment Scores:
Pred. No.: 3,19e-48 Length: 191
Score: 588.00 Matches: 108
Percent Similarity: 96.52% Conservative: 3
Best Local Similarity: 93.91% Mismatches: 4
Query Match: 92.02% Indels: 1
DB: 5 Gaps: 0

US-09-873-224A-147 (1-345) x PCT-US95-10398-190 (1-191)

QY 1 ATGACGACATCTCTTAACCAACAAGAAAACCAAAACACCAAC-CCCGCGCCACAG 59
Db 1 MetSerThrLeuProLysProGlnArgLysThrLysArgAsnThrIleArgArgProGln 20
QY 60 GACGTTAAGTTCCCAAGGGCGGGTCAGATCGTTCGTGGAGTTTACGTGTACCAACGAGG 119
Db 21 AspValLysPheProGlyGlyGlyGlnIleValGlyGlyValIyrValLeuProArg 40
QY 120 GCGCCCGCCAGTTGGGTGTGCGTCAGTCGCAAGACTTCCGAGCGGTGCGCAACCTCGCAGT 179
Db 41 GlyProArgLeuGlyValArgAlaThrArgLysThrSerGluArgSerGlnProArgGly 60
QY 180 AGCGCGCAACCCATCCCGAGCGCGCGCGAACCAGGAGGCGAGTCTGGGTGTACAGCCCGGG 239
Db 61 ArgArgGlnProIleProLysAlaArgArgSerGluGlyArgSerTrpAlaGlnProGly 80
QY 240 TACCTTGGCCCTATATGGGAATGAGGGTCGCGGTGGGCAGCGGTGGCTCTGTCTCCCG 299
Db 81 TyrProTrpProLeuTyrGlyAsnGluGlyCysGlyTrpAlaGlyTrpLeuLeuSerPro 300
QY 300 CCGCGCTCTCGCCGCTGCTGGGGGCCAAATGACCCCGCGCGCAGG 344
Db 101 ArgGlySerArgProSerTrpGlyProAsnAspProArgArg 115

RESULT 8
US-08-290-665A-189
; Sequence 189, Application US/08290665A
; Patent No. 582852
; GENERAL INFORMATION:
; APPLICANT: BUKH, J., MILLER, R. H. AND
; APPLICANT: PURCELL, R.H.
; TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
; TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
; TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
; TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
; TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
; NUMBER OF SEQUENCES: 263

```

RESULT 8
 US-08-290-665A-189
 ; Sequence 189, Application US/08290665A
 ; Patent No. 5882852
 ; GENERAL INFORMATION:
 ; APPLICANT: BUKH, J., MILLER, R.H. AND
 ; APPLICANT: PERCELL, R.H.
 ; TITLE OF INVENTION: NUCLEOTIDE AND DECODED
 ; TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
 ; TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
 ; TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
 ; TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
 ; NUMBER OF SEQUENCES: 263
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: MORGAN & FINNEGAN
 ; STREET: 345 PARK AVENUE
 ; CITY: NEW YORK
 ; STATE: NEW YORK
 ; COUNTRY: USA
 ; ZIP: 10154
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: FLOPPY DISK
 ; COMPUTER: IBM PC COMPATIBLE
 ; OPERATING SYSTEM: PC-DOS/MS-DOS
 ; SOFTWARE: WORDPERFECT 5.1
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/08/290,665A
 ; FILING DATE: 15-AUG-1994
 ; CLASSIFICATION: 435
 ; ATTORNEY/AGENT INFORMATION:
 ; NAME: RICHARD W. BORK
 ; REGISTRATION NUMBER: 36,459


```

; TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
; TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
; TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
; NUMBER OF SEQUENCES: 263
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: MORGAN & FINNEGAN
; STREET: 345 PARK AVENUE
; CITY: NEW YORK
; STATE: NEW YORK
; COUNTRY: USA
; ZIP: 10154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: FLOPPY DISK
; COMPUTER: IBM PC COMPATIBLE
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: WORDPERFECT 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/290,665A
; FILING DATE: 15-AUG-1994
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: RICHARD W. BORK
; REGISTRATION NUMBER: 36,459
; REFERENCE/DOCKET NUMBER: 2026-4116
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212) 758-4800
; TELEFAX: (212) 751-6849
; TELEX: 421792
; INFORMATION FOR SEQ ID NO: 192:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 191 amino acids
; TYPE: amino acid
; STRANDEDNESS: unknown
; TOPOLOGY: unknown
; ORIGINAL SOURCE:
; ORGANISM: homosapiens
; INDIVIDUAL ISOLATE: Z8
;
US-08-290-665A-192

Alignment Scores:
Pred. No.: 6.88e-47 Length: 191
Score: 574.00 Matches: 106
Percent Similarity: 95.65% Conservative: 4
Best Local Similarity: 92.17% Mismatches: 5
Query Match: 89.83% Indels: 1
DB: 2 Gaps: 0

US-09-873-224A-147 (1-345) x US-08-290-665A-192 (1-191)
QY 1 ATGAGCACACTTCTCTAAACCAAGAAACCAAAACCAACCAACCC-CGGCCACAG 59
Db 1 MetSerThrAsnProLysProGlnArgLysThrLysArgAsnThrAsnArgProMet 20
QY 60 GACGTTAAGTTCCAGCGCGCGGTGCGTGCAGTTCGCGAGACTTCGCGACCTCGCAGT 119
Db 21 AspValLysPheProGlyGlyGlyGlnLeuValGlyGlyValTyrLeuLeuProArg 40
QY 120 GGCCCCCAGTTGGGTGTGCGTGCAGTTCGCGAGACTTCGCGAGCTTCGCAACCTCGCAGT 179
Db 41 GlyProArgLeuGlyValArgAlaThrArgLysThrSerGluArgSerGlnProArgGly 60
QY 180 AGGGCCCAACCCATCCCGCGCGCGCGCGAGCGGTCTCGGCGCTCAGCGCCGGG 239
Db 61 ArgArgGlnProLysProLysAlaArgArgSerGluGlyArgSerTrpAlaGlnProGly 80
QY 240 TACCTTCGCGCCCTATATAGGAATAGAGGCTGCGGGTGGCGAGGCTCTCTCTCCCGC 299
Db 81 TyrProTrpProLeuTyrGlyAsnGluGlyCysGlyTrpAlaGlyTrpLeuLeuSerPro 100
QY 300 CGGCGCTCTCGCGCTCGTGGGCGCAATGACCCCGCGCGCAGG 344
Db 101 ArgGlySerArgProSerTrpGlyProAsnAspProArgArg 115

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RESULT 11
US-08-290-665A-193
; Sequence 193, Application US/08290665A
; Patent No. 5882852
; GENERAL INFORMATION:
; APPLICANT: BURK, J., MILLER, R.H. AND
; APPLICANT: PURCELL, R.H.
; TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
; TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
; TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
; TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
; TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
; NUMBER OF SEQUENCES: 263
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: MORGAN & FINNEGAN
; STREET: 345 PARK AVENUE
; CITY: NEW YORK
; STATE: NEW YORK
; COUNTRY: USA
; ZIP: 10154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: FLOPPY DISK
; COMPUTER: IBM PC COMPATIBLE
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: WORDPERFECT 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/290,665A
; FILING DATE: 15-AUG-1994
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: RICHARD W. BORK
; REGISTRATION NUMBER: 36,459
; REFERENCE/DOCKET NUMBER: 2026-4116
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212) 758-4800
; TELEFAX: (212) 751-6849
; TELEX: 421792
; INFORMATION FOR SEQ ID NO: 193:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 191 amino acids
; TYPE: amino acid
; STRANDEDNESS: unknown
; TOPOLOGY: unknown
; ORIGINAL SOURCE:
; ORGANISM: homosapiens
; INDIVIDUAL ISOLATE: Z1
;
US-08-290-665A-193

Alignment Scores:
Pred. No.: 6.88e-47 Length: 191
Score: 574.00 Matches: 106
Percent Similarity: 95.65% Conservative: 4
Best Local Similarity: 92.17% Mismatches: 5
Query Match: 89.83% Indels: 1
DB: 2 Gaps: 0

US-09-873-224A-147 (1-345) x US-08-290-665A-193 (1-191)
QY 1 ATGAGCACACTTCTCTAAACCAAGAAACCAAAACCAACCAACCC-CGGCCACAG 59
Db 1 MetSerThrAsnProLysProGlnArgLysThrLysArgAsnThrAsnArgProMet 20
QY 60 GACGTTAAGTTCCAGCGCGCGGTGCGTGCAGTTCGCGAGACTTCGCGACCTCGCAGT 119
Db 21 AspValLysPheProGlyGlyGlyGlnLeuValGlyGlyValTyrLeuLeuProArg 40
QY 120 GGCCCCCAGTTGGGTGTGCGTGCAGTTCGCGAGACTTCGCGAGCTTCGCAACCTCGCAGT 179
Db 41 GlyProArgLeuGlyValArgAlaThrArgLysThrSerGluArgSerGlnProArgGly 60
QY 180 AGGGCCCAACCCATCCCGCGCGCGCGAGCGGTCTCGGCGCTCAGCGCCGGG 239
Db 61 ArgArgGlnProLysProLysAlaArgArgSerGluGlyArgSerTrpAlaGlnProGly 80

```


Score: 574.00 Matches: 106
 Percent Similarity: 95.65% Conservative: 4
 Best Local Similarity: 92.17% Mismatches: 5
 Query Match: 89.83% Indels: 1
 DB: 5 Gaps: 0

US-09-873-224A-147 (1-345) x PCT-US95-10398-192 (1-191)

QY 1 ATGACGACACTTCTTAACACCAAGAAACCAAAACCAACCAACCAACCC-CGGCCACAG 59
 Db 1 MetSerThrAsnProLysProGlnArgLysThrLysArgAsnThrAsnArgProMet 20
 QY 60 GACGTTAAGTTCCAGCGCGGTCAGATCTTGGTGGAGTTACGTCTACCAACGAGG 119
 Db 21 AspValLysPheProGlyGlyGlnIleValGlyGlyValTyrLeuLeuProArgArg 40
 QY 120 GGGCCCAAGTTGGTGTGGTGGAGTGGCGAAGACTTCCAGAGCGGTGCGCAACTCGCAGT 179
 Db 41 GlyProArgLeuGlyValArgAlaThrArgLysThrSerGluArgSerGlnProArgGly 60
 QY 180 AGGCGCAACCATCCCGAGCGCGCGCAACCGAGGCGAGTCTCTGGGCTCAGCCCGG 239
 Db 61 ArgArgGlnProLysProLysAlaArgSerGluGlyArgSerTrpAlaGlnProGly 80
 QY 240 TACCTTGGCCCTATATGGAAATGAGGCTGCGGGTGGCGAGGTTGGCTCTCTCCCGG 299
 Db 81 TyrProTrpProLeuTyrGlyAsnGluGlyCysGlyTrpAlaGlyTrpLeuLeuSerPro 100
 QY 300 CGGGCTCTCGCGTGTGGGGCCCAAGTACCCCGGCGCAGG 344
 Db 101 ArgGlySerArgProSerTrpGlyProAsnAspProArgArg 115

RESULT 14

PCT-US95-10398-193

; Sequence 193, Application PC/TUS9510398
 ; GENERAL INFORMATION:
 ; APPLICANT: BURKH, J., MILLER, R.H. AND
 ; TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
 ; TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
 ; TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
 ; TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
 ; TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
 ; NUMBER OF SEQUENCES: 263
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: MORGAN & FINNEGAN
 ; STREET: 345 PARK AVENUE
 ; CITY: NEW YORK
 ; STATE: NEW YORK
 ; COUNTRY: USA
 ; ZIP: 10154

; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: FLOPPY DISK
 ; COMPUTER: IBM PC COMPATIBLE
 ; OPERATING SYSTEM: PC-DOS/MS-DOS
 ; SOFTWARE: WORDPERFECT 5.1
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: PCT/US95/10398
 ; FILING DATE: 15-AUG-1995
 ; CLASSIFICATION:
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: 08/086,428
 ; FILING DATE: 29 JUNE 1993
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: 08/290/665
 ; FILING DATE: 15 AUGUST 1994
 ; ATTORNEY/AGENT INFORMATION:
 ; NAME: RICHARD W. BORK
 ; REGISTRATION NUMBER: 36,459
 ; REFERENCE/DOCKET NUMBER: 2026-4116
 ; TELECOMMUNICATION INFORMATION:
 ; TELEPHONE: (212) 758-4800
 ; TELEFAX: (212) 751-6849

; TELEX: 421792
 ; INFORMATION FOR SEQ ID NO: 193:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 191 amino acids

; TYPE: amino acid

; STRANDEDNESS: unknown

; TOPOLOGY: unknown

; ORIGINAL SOURCE:

; ORGANISM: Homosapiens

; INDIVIDUAL ISOLATE: Z1

PCT-US95-10398-193

Alignment Scores:

Pred. No.: 6.88e-47 Length: 191
 Score: 574.00 Matches: 106
 Percent Similarity: 95.65% Conservative: 4
 Best Local Similarity: 92.17% Mismatches: 5
 Query Match: 89.83% Indels: 1
 DB: 5 Gaps: 0

US-09-873-224A-147 (1-345) x PCT-US95-10398-193 (1-191)

QY 1 ATGACGACACTTCTTAACACCAAGAAACCAAAACCAACCAACCC-CGGCCACAG 59
 Db 1 MetSerThrAsnProLysProGlnArgLysThrLysArgAsnThrAsnArgProMet 20
 QY 60 GACGTTAAGTTCCAGCGCGGTCAGATCTTGGTGGAGTTACGTCTACCAACGAGG 119
 Db 21 AspValLysPheProGlyGlyGlnIleValGlyGlyValTyrLeuLeuProArgArg 40
 QY 120 GGGCCCAAGTTGGTGTGGTGGAGTGGCGAAGACTTCCAGAGCGGTGCGCAACTCGCAGT 179
 Db 41 GlyProArgLeuGlyValArgAlaThrArgLysThrSerGluArgSerGlnProArgGly 60
 QY 180 AGGCGCAACCATCCCGAGCGCGCGCAACCGAGGCGAGTCTCTGGGCTCAGCCCGG 239
 Db 61 ArgArgGlnProLysProLysAlaArgSerGluGlyArgSerTrpAlaGlnProGly 80
 QY 240 TACCTTGGCCCTATATGGAAATGAGGCTGCGGGTGGCGAGGTTGGCTCTCTCCCGG 299
 Db 81 TyrProTrpProLeuTyrGlyAsnGluGlyCysGlyTrpAlaGlyTrpLeuLeuSerPro 100
 QY 300 CGGGCTCTCGCGTGTGGGGCCCAAGTACCCCGGCGCAGG 344
 Db 101 ArgGlySerArgProSerTrpGlyProAsnAspProArgArg 115

RESULT 15

PCT-US95-10398-195

; Sequence 195, Application PC/TUS9510398

; GENERAL INFORMATION:

; APPLICANT: BURKH, J., MILLER, R.H. AND

; TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED

; TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND

; TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS

; TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE

; TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES

; NUMBER OF SEQUENCES: 263

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: MORGAN & FINNEGAN

; STREET: 345 PARK AVENUE

; CITY: NEW YORK

; STATE: NEW YORK

; COUNTRY: USA

; ZIP: 10154

; COMPUTER READABLE FORM:

; MEDIUM TYPE: FLOPPY DISK

; COMPUTER: IBM PC COMPATIBLE

; OPERATING SYSTEM: PC-DOS/MS-DOS

; SOFTWARE: WORDPERFECT 5.1

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: PCT/US95/10398

; FILING DATE: 15-AUG-1995

CLASSIFICATION:

PRIOR APPLICATION DATA:
 APPLICATION NUMBER: 08/086,428
 FILING DATE: 29 JUNE 1993
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: 08/290/665
 FILING DATE: 15 AUGUST 1994
 ATTORNEY/AGENT INFORMATION:
 NAME: RICHARD W. BORK
 REGISTRATION NUMBER: 36,459
 REFERENCE/DOCKET NUMBER: 2026-4116
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (212) 758-4800
 TELEFAX: (212) 751-6849
 TELEX: 421792
 INFORMATION FOR SEQ ID NO: 195:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 191 amino acids
 TYPE: amino acid
 STRANDEDNESS: unknown
 TOPOLOGY: unknown
 ORIGINAL SOURCE:
 ORGANISM: hominids
 INDIVIDUAL ISOLATE: Z6
 PCT-US95-10398-195

Alignment Scores:
 Pred. No.: 6.88e-47 Length: 191
 Score: 574.00 Matches: 106
 Percent Similarity: 95.65% Conservative: 4
 Best Local Similarity: 92.17% Mismatches: 5
 Query Match: 89.83% Indels: 1
 DB: 5 Gaps: 0

US-09-873-224A-147 (1-345) x PCT-US95-10398-195 (1-191)

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DB	1	MetSerThrAsnProLysProGlnArgLysThrLysArgAsnThrAsnArgArgProMet	20
QY	60	GACGTTAAGTTCACGCGCGGTGACATCGTTGGTGGAGTTTACGTGCTACCAACGAGG	119
DB	21	AspValLysPheProGlyGlyGlyGlnIleValGlyGlyValTyrLeuLeuProArg	40
QY	120	GGCCCCAGTTGGGTGTCGTGCGAGTCCGAGACTCCGAGCGGTCCGACCTCGCAGT	179
DB	41	GlyProArgLeuGlyValArgAlaThrArgLysThrSerGluArgSerGlnProArgGly	60
QY	180	AGGCGCCCAACCATCCCGCGCGCGCGAGAACCGAGGCGAGGTCTCTGGGCTCAGCCGGG	239
DB	61	ArgArgGlnProIleProLysAlaArgArgSerGluGlyArgSerTyrAlaGlnProGly	80
QY	240	TACCCCTGGCCCTATATGGGATGAGGCTGCGGGTGGGAGGTGGCTCTCTCTCCCG	299
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QY	300	CGCGCTCTCGCCCTCTGCTGGGGCCCAATGACCCCGCGCGAGG	344
DB	101	ArgGlySerArgProSerTyrGlyProAsnAspProArgArgArg	115

Search completed: February 25, 2004, 01:27:33
 Job time : 19.5 secs

GenCore version 5.1.6
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OM nucleic - protein search, using frame_plus_n2p model

Run on: February 25, 2004, 01:24:56 : Search time 33 Seconds

(without alignments)
4415.023 Million cell updates/sec

Title: US-09-873-224A-147

Perfect score: 639

Sequence: 1 atgagcacacttctaacc.....aaatgaccccgagcagga 345

Scoring table: BLOSUM62

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Xgapop 10.0 , Xgapext 0.5

Fgapop 6.0 , Fgapext 7.0

Delop 6.0 , Delext 7.0

Searched: 809742 seqs, 211153259 residues

Total number of hits satisfying chosen parameters: 1619484

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

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-DB=Published Applications AA -QFMT=fastan -SUFFIX=rapb -MINMATCH=0.1

-TRAN=human40.cdi -LIST=45 -DOCALIGN=200 -THR SCORE=pct -THR MAX=100

-THR MIN=0 -ALIGN=15 -MODE=LOCAL -OUTFMT=ptc -NORM=ext -HRAPSTZ=500 -MINLEN=0

-MAXLEN=200000000 -USER=US09873224 @cgn 1.1.53 @runat 24022004_132652_9839

-NCPU=6 -ICPU=3 -NO MWAP -LARGQUERY -NEG SCORES=0 -WAIT -DSPELOCK=100

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-FGAPOP=6 -FGAPEXT=7 -YGAPOP=10 -YGAPEXT=0.5 -DELOP=6 -DELEXT=7

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15: /cgn2_6/ptodata/2/pubpaa/US10C_PUBCOMB.pep.*
16: /cgn2_6/ptodata/2/pubpaa/US10_NEW_PUB.pep.*
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18: /cgn2_6/ptodata/2/pubpaa/US60_PUBCOMB.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description

1	608	95.1	115	9	US-09-851-138-50	Sequence 50, Appl
2	608	95.1	115	10	US-09-899-046-148	Sequence 148, App
3	608	95.1	115	10	US-09-878-281-148	Sequence 148, App
4	575	90.0	235	15	US-10-365-620-58	Sequence 58, Appl
5	575	90.0	249	15	US-10-365-620-54	Sequence 54, Appl
6	575	90.0	459	15	US-10-365-620-60	Sequence 60, Appl
7	575	90.0	473	15	US-10-365-620-56	Sequence 56, Appl
8	571	89.4	130	14	US-10-268-569-19	Sequence 19, Appl
9	571	89.4	319	9	US-09-851-138-12	Sequence 12, Appl
10	569	89.0	2894	9	US-09-941-611-23	Sequence 23, Appl
11	569	89.0	2894	14	US-10-044-995-23	Sequence 23, Appl
12	568	88.9	151	14	US-10-292-129-14	Sequence 14, Appl
13	568	88.9	182	9	US-09-929-955-2	Sequence 2, Appl
14	568	88.9	182	13	US-10-104-966-2	Sequence 2, Appl
15	568	88.9	3011	9	US-09-742-659-4	Sequence 4, Appl
16	568	88.9	3011	9	US-09-952-572-9	Sequence 9, Appl
17	568	88.9	3011	9	US-09-929-955-1	Sequence 1, Appl
18	568	88.9	3011	9	US-09-747-419-20	Sequence 20, Appl
19	568	88.9	3011	10	US-09-891-894-3	Sequence 3, Appl
20	568	88.9	3011	13	US-10-104-966-1	Sequence 1, Appl
21	568	88.9	3011	14	US-10-259-275-20	Sequence 20, Appl
22	568	88.9	3011	14	US-10-184-150-3	Sequence 3, Appl
23	568	88.9	3012	9	US-10-328-997-3	Sequence 3, Appl
24	568	88.9	3012	10	US-09-238-076-2	Sequence 2, Appl
25	568	88.9	3012	10	US-09-995-937-2	Sequence 2, Appl
26	568	88.9	3012	10	US-09-917-563-2	Sequence 2, Appl
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28	567	88.7	424	14	US-10-173-480-28	Sequence 28, Appl
29	566	88.6	166	10	US-09-899-046-194	Sequence 194, App
30	566	88.6	166	10	US-09-878-281-194	Sequence 194, App
31	564	88.3	166	10	US-09-899-046-164	Sequence 164, App
32	564	88.3	166	10	US-09-878-281-164	Sequence 164, App
33	564	88.3	3011	9	US-09-238-076-20	Sequence 20, Appl
34	564	88.3	3011	10	US-09-995-937-20	Sequence 20, Appl
35	564	88.3	3011	10	US-09-917-563-20	Sequence 20, Appl
36	562	87.9	319	9	US-09-851-138-44	Sequence 44, Appl
37	561	87.8	2985	14	US-10-259-275-40	Sequence 40, Appl
38	560	87.6	190	14	US-10-268-562-1	Sequence 1, Appl
39	560	87.6	191	10	US-09-194-949-3	Sequence 3, Appl
40	560	87.6	3011	9	US-09-916-359-2	Sequence 2, Appl
41	558	87.3	113	9	US-09-921-397-78	Sequence 78, Appl
42	558	87.3	319	9	US-09-851-138-42	Sequence 42, Appl
43	558	87.3	809	9	US-09-973-025-50	Sequence 50, Appl
44	558	87.3	809	10	US-09-899-303-50	Sequence 50, Appl
45	558	87.3	809	10	US-09-995-808-50	Sequence 50, Appl

ALIGNMENTS

RESULT 1

US-09-851-138-50

; Sequence 50, Application US/09851138

; Publication No. US20020183508A1

; GENERAL INFORMATION:

; APPLICANT: MAERTENS, GEERT

; STUYVER, LIEVEN

; TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES

; AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC

; AGENTS

; NUMBER OF SEQUENCES: 207

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: ARNOLD, WHITE & DURKEE

; STREET: P.O. BOX 4433

; CITY: HOUSTON

; STATE: TEXAS

; COUNTRY: USA

; ZIP: 77210-4433

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disk

; COMPUTER: IBM PC compatible

; OPERATING SYSTEM: PC-DOS/MS-DOS

; SOFTWARE: Microsoft Word 6.0 / ASCII text output

; CURRENT APPLICATION DATA:

REFERENCE/DOCKET NUMBER: 1487-5
TELECOMMUNICATION INFORMATION:
TELEPHONE: 7038164000
TELEFAX: 7038164100
INFORMATION FOR SEQ ID NO: 23:
SEQUENCE CHARACTERISTICS:
LENGTH: 2894 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: peptide
HYPOTHETICAL: NO
ANTI-SENSE: NO
SEQUENCE DESCRIPTION: SEQ ID NO: 23:
US-09-941-611-23

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Alignment Scores:
Pred. No.: 1.57e-42 Length: 2894
Score: 569.00 Matches: 104
Percent Similarity: 94.78% Conservative: 5
Best Local Similarity: 90.43% Mismatches: 6
Query Match: 89.05% Indels: 1
DB: 9 Gaps: 0

US-09-873-224A-147 (1-345) x US-09-941-611-23 (1-2894)

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QY 60 GAGCTTAAGTTCGCGAGCGCGCGTCAATCGTTGGTGGAGTTTACGTCTACCAACGAGG 119
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QY 120 GGCCTCCAGCTGGGTGTGGTGCAGTCGCGCAAGACTTCCGAGCGGTGCCAACCTCGCAGT 179
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Db 41 GlyProArgLeuGlyValArgAlaThrArgLysThrSerGluArgSerGlnPro-ArgGly 60

QY 180 AGCGCCCAACCCATCCCAAGGCGCGCGCAACCGAGGGCAGGTCTCTGGGCTCAGCCCGGG 239
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Db 61 ArgArgGlnProIleProLysValArgArgProGluGlyArgThrTrpAlaGlnProGly 80

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RESULT 11
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; Sequence 23, Application US/10044995
; Publication No. US20030049685A1
; GENERAL INFORMATION:
; APPLICANT: DELEYS, DIRK J
; POLLET, DIRK
; MAERTENS, GEERT
; VAN HEUVERSWUN, HUGO
; TITLE OF INVENTION: SYNTHETIC ANTIGENS FOR THE DETECTION OF
; ANTIBODIES TO HEPATITIS C VIRUS

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; SOFTWARE, PatentIn Release #1.0, Version #1.3.3
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; CURRENT APPLICATION DATA:
;   APPLICATION NUMBER: US/10/044,995
;   FILING DATE: 15-Jan-2002
;   CLASSIFICATION: <Unknown>
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; PRIOR APPLICATION DATA:
;   APPLICATION NUMBER: 08/391,671
;   FILING DATE: <Unknown>
;   APPLICATION NUMBER: US 07/920,286
;   FILING DATE: 14-OCT-1992
;   APPLICATION NUMBER: WO PCT/EP91/02409
;   FILING DATE: 13-DEC-1991
;   APPLICATION NUMBER: EP 90124241.2
;   FILING DATE: 14-DEC-1990
;
; ATTORNEY/AGENT INFORMATION:
;   NAME: SADOFF, B.J.
;   REGISTRATION NUMBER: 36,663
;   REFERENCE/DOCKET NUMBER: 1487-5
;
; TELECOMMUNICATION INFORMATION:
;   TELEPHONE: 7038164000
;   TELEFAX: 7038164100
;
; INFORMATION FOR SEQ ID NO: 23:
;
; SEQUENCE CHARACTERISTICS:
;   LENGTH: 2894 amino acids
;   TYPE: amino acid
;   STRANDEDNESS: single
;   TOPOLOGY: linear
;   MOLECULE TYPE: peptide
;   HYPOTHETICAL: NO
;
; ANTI-SENSE: NO
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; SEQUENCE DESCRIPTION: SEQ ID NO: 23:
US-10-044-995-23

Alignment Scores:
Pred. No.: 1,57e-42 Length: 2894
Score: 569.00 Matches: 104
Percent Similarity: 94.78% Conservative: 5
Best Local Similarity: 90.43% Mismatches: 6
Query Match: 89.05% Indels: 1
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US-09-873-224A-147 (1-345) x US-10-044-995-23 (1-2894)

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Db 1 MecSerThrIleProIysProGlnArgLysThrLysArgAsnThrArg
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Db 21 AspValIysPheProGlyGlyGlyGlnIleValGlyGlyValTyr
Qy 120 GGCCCCAGTTGGTGTGCGTGCAGTGCACAGACTTCGAGCGGTG
Db 41 GlyProArgLeuGlyValArgAlaThrArgLysThrSerGluArgSer
Qy 180 AGCGCGCAACCCATCCCCAGGGCGGCCCAACCGAGGGCAGAGTCCTC
Db 61 ArgArgGlnProIleProLysValArgArgProGluGlyArgThr
Qy 240 TACCCCTTGGCCCCATATCGGAATGAGGGCTCGCGGTGGCGAGGGT
Db 81 TyrProTriProLeuTyrGlyAsnGluGlyCysGlyTriAlaGlyTyr
Qy 300 CGCGGCTCTCGCCCGTCGTGGGGGCCCAATGACCCCCCGCGCAGG
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US-10-292-129-14
; Sequence 14, Application US/10292129
; Publication No. US20030148267A1
; GENERAL INFORMATION:
; APPLICANT: Schmidt, Emmett Vance

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Percent Similarity:	91.30%	Mismatches:	6
Best Local Similarity:	98.89%	Indels:	1
Query Match:	13	Gaps:	0
DB:	13		

GenCore version 5.1.6
Copyright (c) 1993 - 2004 Compugen Ltd.

OM nucleic - nucleic search, using sw model

Run on: February 27, 2004, 10:59:35 ; Search time 80 Seconds
(without alignments)
2393.226 Million cell updates/sec

Title: US-09-873-224A-147

Perfect score: 345

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Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

Issued Patents NA.*

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
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Sequence 1, Appli
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Sequence 9, Appli

28 253.6 73.5 803 1 US-08-157-235-6
29 253 73.3 573 2 US-08-290-665A-113
30 253 73.3 573 5 PCT-US95-10398-113
31 253 73.3 803 1 US-08-157-235-1
32 253 73.3 1539 2 US-08-470-426B-17
33 253 73.3 1863 2 US-08-470-426B-14
34 253 73.3 2433 3 US-08-612-973-49
35 253 73.3 2433 3 US-08-927-597-49
36 251.4 72.9 345 1 US-08-324-977-7
37 251.4 72.9 345 2 US-08-384-616-7
38 251.4 72.9 345 2 US-08-904-686A-7
39 251.4 72.9 345 3 US-09-315-850-7
40 251.4 72.9 573 2 US-08-290-665A-108
41 251.4 72.9 573 5 PCT-US95-10398-108
42 251.4 72.9 803 1 US-08-157-235-3
43 251.4 72.9 1167 1 US-08-324-977-9
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ALIGNMENTS

RESULT 1

US-08-836-075A-49

; Sequence 49, Application US/08836075A

; Patent No. 6180768

; GENERAL INFORMATION:

; APPLICANT: MAERTENS, GEERT

; TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES

; TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC

; NUMBER OF INVENTIONS: AGENTS

; NUMBER OF SEQUENCES: 207

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: ARNOLD, WHITE & DURKEE

; STREET: P.O. BOX 4433

; CITY: HOUSTON

; STATE: TEXAS

; COUNTRY: USA

; ZIP: 77210-4433

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disk

; COMPUTER: IBM PC compatible

; OPERATING SYSTEM: PC-DOS/MS-DOS

; SOFTWARE: Microsoft Word 6.0 / ASCII text output

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/08/836,075A

; FILING DATE: 21 Apr 1997

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: PCT/EP95/04155

; FILING DATE: 23 Oct 1995

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: EP 94870166.9

; FILING DATE: 21 Oct 1994

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: EP 95870076.7

; FILING DATE: 28 Jun 1995

; ATTORNEY/AGENT INFORMATION:

; NAME: KAMMERER, PATRICIA A.

; REGISTRATION NUMBER: 29,775

; REFERENCE/DOCKET NUMBER: INNS:004

; INFORMATION FOR SEQ ID NO: 49:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 309 base pairs

; TYPE: nucleic acid

; STRANDEDNESS: single

; TOPOLOGY: linear

; MOLECULE TYPE: cDNA

; HYPOTHETICAL: NO

; ANTI-SENSE: NO

US-08-836-075A-49


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; ORIGINAL SOURCE:
; ORGANISM: homosapiens
; INDIVIDUAL ISOLATE: S52
PCT-US95-10398-136

Query Match 75.2%; Score 259.4; DB 5; Length 573;
Best Local Similarity 86.4%; Pred. No. 2.3e-64;
Matches 298; Conservative 0; Mismatches 46; Indels 1; Gaps 1;

QY 1 ATGAGCACACTTCTTAACCAAGAAAAACCAAGAAAAACCAAAACCAACCCGCGCCACAG 59
DB 1 ATGAGCACACTTCTTAACCTCAAGAAAAACCAAGAAAAACCAATCCGTCGCCACAG 60

QY 60 GACGTTAAGTTCCAGCGCGGTCAGATCGTTGGTGGAGTTTACGTTCTACCAAGCAGG 119
DB 61 GACGTTAAGTTCCAGCGCGGTCAGATCGTTGGTGGAGTTTACGTTCTCCCGCGCAGG 120

QY 120 GCGCCCGCAGTTGGGTGTCGTCAGTCGCGCAGCTCCGAGCGGTCCCAACCTCGCAGT 179
DB 121 GCGCCACAGTTGGGTGTCGTCAGTCGCGCAGCTTCTGAACGTACAGCTCGCGGA 180

QY 180 AGGCGCCAAACCATCCCGAGCGCGCGCAACCGAGGCGAGTCTCGGGCTCAGCCCGGG 239
DB 181 CGACGACAGCTATCCCCAAGCGCGTCGAGCGCAAGCGCGTCTCTGGGCTCAGCCCGG 240

QY 240 TACCTTGGCCCCCTATATGGGATCAGGCTCGCGGTGGCGCAGGTGCTCTGTCCCG 299
DB 241 TACCTTGGCCCCCTATATGGGATCAGGCTCGCGGTGGCGCAGGTGCTCTGTCCCG 300

QY 300 CGCGGCTCTCGCCCTCGTGGGGCCCCAAATGACCCCGCGCGCAGG 344
DB 301 CGCGGCTCTCGCCCTCGTGGGGCCCCAAACGAGCCCGCGCGAGG 345

RESULT 6
US-08-290-665A-141
; Sequence 141, Application US/08290665A
; Patent No. 5882852
; GENERAL INFORMATION:
; APPLICANT: BUKH, J., MILLER, R.H. AND
; APPLICANT: PURCELL, R.H.
; TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
; TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
; TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
; TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
; TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
; NUMBER OF SEQUENCES: 263
; CORRESPONDENCE ADDRESS:
; ADDRESSER: MORGAN & FINNEGAN
; STREET: 345 PARK AVENUE
; CITY: NEW YORK
; STATE: NEW YORK
; COUNTRY: USA
; ZIP: 10154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: FLOPPY DISK
; COMPUTER: IBM PC COMPATIBLE
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: WORDPERFECT 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/290,665A
; FILING DATE: 15-AUG-1994
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: RICHARD W. BORK
; REGISTRATION NUMBER: 36,459
; REFERENCE/DOCKET NUMBER: 2026-4116
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212) 758-4800
; TELEFAX: (212) 751-6849
; TELEX: 421792
; INFORMATION FOR SEQ ID NO: 141:
; SEQUENCE CHARACTERISTICS:

; LENGTH: 573 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; ORIGINAL SOURCE:
; ORGANISM: homosapiens
; INDIVIDUAL ISOLATE: Z1
US-08-290-665A-141

Query Match 74.7%; Score 257.8; DB 2; Length 573;
Best Local Similarity 86.1%; Pred. No. 6.5e-64;
Matches 297; Conservative 0; Mismatches 47; Indels 1; Gaps 1;

QY 1 ATGAGCACACTTCTTAACCAAGAAAAACCAAGAAAAACCAAAACCAACCCGCGCCACAG 59
DB 1 ATGAGCACAAATCTTAACCTCAAGAAAAACCAAGAAAAACCAACCTCGCGCCCATG 60

QY 60 GACGTTAAGTTCCAGCGCGGTCAGATCGTTGGTGGAGTTTACGTTCTACCAAGCAGG 119
DB 61 GATGTGAATTTCCCGCGCGGTCAGATCGTTGGCGGAGTTTACTTGTCTGCCGCGCAGG 120

QY 120 GCGCCCGCAGTTGGGTGTCGTCAGTCGCGCAGCTCCGAGCGGTCCGACCTCGCAGT 179
DB 121 GCGCCCGCAGTTGGGTGTCGTCAGTCGCGCAGCTTCTGAACGTACAGCTCGCGGA 180

QY 180 AGGCGCCAAACCATCCCGAGCGCGCGCAACCGAGGCGAGTCTCTGGGCTCAGCCCGGG 239
DB 181 AGGCTCAGCTATCCCCAAGCGCGTCGAGCGCAAGCGCGTCTCTGGGCTCAGCCCGG 240

QY 240 TACCTTGGCCCCCTATATGGGATCAGGCTCGCGGTGGCGCAGGTGCTCTGTCCCG 299
DB 241 TACCTTGGCCCCCTTACGCGCAATGAGGCTGTGGGTGGCGAGGTGCTCTGTCCCG 300

QY 300 CGCGGCTCTCGCCCTCGTGGGGCCCCAAATGACCCCGCGCGCAGG 344
DB 301 CGCGGCTCTCGCCCTCGTGGGGCCCCAAATGATCCCGCGCGTAGG 345

RESULT 7
PCT-US95-10398-141
; Sequence 141, Application PC/TUS9510398
; GENERAL INFORMATION:
; APPLICANT: BUKH, J., MILLER, R.H. AND
; APPLICANT: PURCELL, R.H.
; TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
; TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
; TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
; TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
; TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
; NUMBER OF SEQUENCES: 263
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: MORGAN & FINNEGAN
; STREET: 345 PARK AVENUE
; CITY: NEW YORK
; STATE: NEW YORK
; COUNTRY: USA
; ZIP: 10154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: FLOPPY DISK
; COMPUTER: IBM PC COMPATIBLE
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: WORDPERFECT 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: PCT/US95/10398
; FILING DATE: 15-AUG-1995
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/086,428
; FILING DATE: 29 JUNE 1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/290/665
; FILING DATE: 15 AUGUST 1994
; ATTORNEY/AGENT INFORMATION:

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CORRESPONDENCE ADDRESS:
ADDRESSEE: MORGAN & FINNEGAN
STREET: 345 PARK AVENUE
CITY: NEW YORK
STATE: NEW YORK
COUNTRY: USA
ZIP: 10154
COMPUTER READABLE FORM:
MEDIUM TYPE: FLOPPY DISK
COMPUTER: IBM PC COMPATIBLE
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: WORDPERFECT 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: PCT/US95/10398
FILING DATE: 15-AUG-1995
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/086,428
FILING DATE: 29 JUNE 1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/290/665
FILING DATE: 15 AUGUST 1994
ATTORNEY/AGENT INFORMATION:
NAME: RICHARD W. BORK
REGISTRATION NUMBER: 36,459
REFERENCE/DOCKET NUMBER: 2026-4116
TELEPHONE: (212) 758-4800
TELEFAX: (212) 751-6849
TELEX: 421792
INFORMATION FOR SEQ ID NO: 135:
SEQUENCE CHARACTERISTICS:
LENGTH: 573 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
ORIGINAL SOURCE:
ORGANISM: homosapiens
INDIVIDUAL ISOLATE: HK10
PCT-US95-10398-135

Query Match 74.3%; Score 256.2; DB 5; Length 573;
Best Local Similarity 85.8%; Pred. No. 1.8e-63;
Matches 296; Conservative 0; Mismatches 48; Indels 1; Gaps 1;

QY 1 ATGAGCACACTTCTTAACCAAGAAAAACCAAGAAAAACCAACACCAACCCGCGCCACAG 59
Db 1 ATGAGCACACTTCTTAACCAAGAAAAACCAAGAAAAACCAACACCAACCCGCGCCACAG 60

QY 60 GACGTTAAGTTCCTTAAACCAAGAAAAACCAAGAAAAACCAACACCAACCCGCGCCAGG 119
Db 61 GACGTTAAGTTCCTTAAACCAAGAAAAACCAAGAAAAACCAACACCAACCCGCGCCAGG 120

QY 120 GCGCCCAAGTTGGGTGTGCGTGCAGTGCAGTGCAGTGCAGTGCAGTGCAGTGCAGTGCAGT 179
Db 121 GCGCCCAAGTTGGGTGTGCGTGCAGTGCAGTGCAGTGCAGTGCAGTGCAGTGCAGTGCAGT 180

QY 180 AGCGGCCAACCCATCCCGAGCGCGCGAGAACCGAGGCGAGGCTCTGGGCTCAGCCCGGG 239
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QY 240 TACCCCTTGGCCCTTATATGGAATGAGGCTGCGGCTGCGGCTGCGGCTGCGGCTGCGGCT 299
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QY 300 CGCGGCTCTCGCCGCTGTGGGCGCCCAATGACCCCGCGCGAGG 344
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RESULT 14
PCT-US95-10398-137
; Sequence 137, Application PC/TUS9510398

```

```

GENERAL INFORMATION:
APPLICANT: BURK, J., MILLER, R.H. AND
APPLICANT: PURCELL, R.H.
TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
NUMBER OF SEQUENCES: 263
CORRESPONDENCE ADDRESS:
ADDRESSEE: MORGAN & FINNEGAN
STREET: 345 PARK AVENUE
CITY: NEW YORK
STATE: NEW YORK
COUNTRY: USA
ZIP: 10154
COMPUTER READABLE FORM:
MEDIUM TYPE: FLOPPY DISK
COMPUTER: IBM PC COMPATIBLE
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: WORDPERFECT 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: PCT/US95/10398
FILING DATE: 15-AUG-1995
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/086,428
FILING DATE: 29 JUNE 1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/290/665
FILING DATE: 15 AUGUST 1994
ATTORNEY/AGENT INFORMATION:
NAME: RICHARD W. BORK
REGISTRATION NUMBER: 36,459
REFERENCE/DOCKET NUMBER: 2026-4116
TELEPHONE: (212) 758-4800
TELEFAX: (212) 751-6849
TELEX: 421792
INFORMATION FOR SEQ ID NO: 137:
SEQUENCE CHARACTERISTICS:
LENGTH: 573 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
ORIGINAL SOURCE:
ORGANISM: homosapiens
INDIVIDUAL ISOLATE: S2
PCT-US95-10398-137

Query Match 74.3%; Score 256.2; DB 5; Length 573;
Best Local Similarity 85.8%; Pred. No. 1.8e-63;
Matches 296; Conservative 0; Mismatches 48; Indels 1; Gaps 1;

QY 1 ATGAGCACACTTCTTAAACCAAGAAAAACCAAGAAAAACCAACACCAACCCGCGCCACAG 59
Db 1 ATGAGCACACTTCTTAAACCAAGAAAAACCAAGAAAAACCAACACCAACCCGCGCCACAG 60

QY 60 GACGTTAAGTTCCTTAAACCAAGAAAAACCAAGAAAAACCAACACCAACCCGCGCCAGG 119
Db 61 GACATCAAGTTCCCGGGTGGCGGAGAGATCGTTGGTGGAGTATAGTGTTCGCGCGCAGG 120

QY 120 GCGCCCAAGTTGGGTGTGCGTGCAGTGCAGTGCAGTGCAGTGCAGTGCAGTGCAGTGCAGT 179
Db 121 GCGCCCAAGTTGGGTGTGCGTGCAGTGCAGTGCAGTGCAGTGCAGTGCAGTGCAGTGCAGT 180

QY 180 AGCGGCCAACCCATCCCGAGCGCGCGAGAACCGAGGCGAGGCTCTGGGCTCAGCCCGGG 239
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QY 240 TACCCCTTGGCCCTTATATGGAATGAGGCTGCGGCTGCGGCTGCGGCTGCGGCTGCGGCT 299
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GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: February 27, 2004, 11:01:46 ; Search time 261 Seconds
(without alignments)
4768.491 Million cell updates/sec

Title: US-09-873-224A-147

Perfect score: 345

Sequence:

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Scoring table: IDENTITY_NUC

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Searched: 2353733 seqs, 1803733377 residues

Total number of hits satisfying chosen parameters: 4707466

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Listing first 45 summaries

Database :

Published Applications NA:*

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- 18: /cgn2_6/ptodata/2/pubpna/US60_PUBCOMB.seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Match	Length	ID	Description
1	334	96.8	346	10	US-09-899-046-147
2	334	96.8	346	10	US-09-878-281-147
3	309	89.6	309	9	US-09-851-138-49
4	261.6	75.8	652	9	US-09-851-138-59
5	260.2	75.4	499	10	US-09-899-046-165
6	260.2	75.4	499	10	US-09-878-281-165
7	259.4	75.2	573	10	US-09-194-949-5
8	254.6	73.8	499	10	US-09-899-046-163
9	254.6	73.8	499	10	US-09-878-281-163
10	253.6	73.5	498	10	US-09-899-046-193
11	253.6	73.5	498	10	US-09-878-281-193
12	253	73.3	2433	9	US-09-973-025-49
13	253	73.3	2433	10	US-09-899-303-49
14	253	73.3	2433	10	US-09-995-808-49
15	253	73.3	2433	10	US-09-995-860-49

16	253	73.3	2433	10	US-09-995-791-49	Sequence 49, Appl
17	249.8	72.4	9413	10	US-09-827-688-6	Sequence 6, Appli
18	248.8	72.1	957	9	US-09-851-138-11	Sequence 11, Appl
19	248.2	71.9	480	14	US-10-071-867-15	Sequence 15, Appl
20	248.2	71.9	9275	14	US-10-259-275-39	Sequence 39, Appl
21	246.6	71.5	685	10	US-09-853-409-37	Sequence 37, Appl
22	246.6	71.5	685	12	US-10-457-304-37	Sequence 37, Appl
23	246.6	71.5	708	15	US-10-365-620-57	Sequence 57, Appl
24	246.6	71.5	750	15	US-10-365-620-53	Sequence 53, Appl
25	246.6	71.5	1380	15	US-10-365-620-59	Sequence 59, Appl
26	246.6	71.5	1422	15	US-10-365-620-55	Sequence 55, Appl
27	246.6	71.5	9365	10	US-09-827-688-7	Sequence 7, Appli
28	246.6	71.5	9416	9	US-09-929-955-13	Sequence 13, Appl
29	246.6	71.5	9416	13	US-10-104-966-13	Sequence 13, Appl
30	246.6	71.5	9646	9	US-09-742-659-3	Sequence 3, Appli
31	246.6	71.5	9646	9	US-09-838-076-1	Sequence 1, Appli
32	246.6	71.5	9646	10	US-09-995-937-1	Sequence 1, Appli
33	246.6	71.5	9646	10	US-09-917-563-1	Sequence 1, Appli
34	246.6	71.5	10803	9	US-09-747-419-17	Sequence 17, Appl
35	246.6	71.5	10803	14	US-10-259-275-17	Sequence 17, Appl
36	246.6	71.5	12980	9	US-09-938-076-5	Sequence 5, Appli
37	246.6	71.5	12980	10	US-09-995-937-5	Sequence 5, Appli
38	246.6	71.5	12980	10	US-09-917-563-5	Sequence 5, Appli
39	245	71.0	540	15	US-10-150-283-2	Sequence 2, Appli
40	245	71.0	9379	9	US-09-916-359-1	Sequence 1, Appli
41	245	71.0	9416	9	US-09-238-076-19	Sequence 19, Appl
42	245	71.0	9416	10	US-09-995-937-19	Sequence 19, Appl
43	245	71.0	9416	10	US-09-917-563-19	Sequence 19, Appl
44	243.4	70.6	630	9	US-09-973-322-1	Sequence 1, Appli
45	243.4	70.6	630	10	US-09-968-255-1	Sequence 1, Appli

ALIGNMENTS

RESULT 1

US-09-899-046-147
Sequence 147, Application US/09899046
Publication No. US20030008274A1
GENERAL INFORMATION:
APPLICANT:
TITLE OF INVENTION: New sequences of hepatitis C virus
TITLE OF INVENTION: genotypes for diagnosis, prophylaxis and therapy.
NUMBER OF SEQUENCES: 270
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25 (BPO)
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/899,046
FILING DATE:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/362,455
FILING DATE:
INFORMATION FOR SEQ ID NO: 147:
SEQUENCE CHARACTERISTICS:
LENGTH: 346 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: CDNA
HYPOTHETICAL: NO
ANTI-SENSE: NO
FEATURE:
NAME/KEY: CDS
LOCATION: 1..346
NAME/KEY: mat peptide
LOCATION: 1..342
US-09-899-046-147

Query Match

96.8%; Score 334; DB 10; Length 346;

Best Local Similarity 99.7%; Pred. No. 2.7e-91; Mismatches 0; Indels 1; Gaps 1;
Matches 345; Conservative 0; Mismatches 0; Indels 1; Gaps 1;
QY 1 ATGAGCACACTTCTTAACCAACCAAGAAACCAAAAGAAACCAACCAAC-CCGGCCACAG 59
Db 1 ATGAGCACACTTCTTAACCAACCAAGAAACCAAAAGAAACCAACCAAC-CCGGCCACAG 60
QY 60 GAGGTTAAGTTCCTTAAACCAACCAAGAAACCAAAAGAAACCAACCAAC-CCGGCCACAG 119
Db 61 GAGGTTAAGTTCCTTAAACCAACCAAGAAACCAAAAGAAACCAACCAAC-CCGGCCACAG 120
QY 120 GGGCCCCAGTTGGGCTGCGTGCAGTCCGCAAGTTCGAGCGGTGCAACCTCGCACT 179
Db 121 GGGCCCCAGTTGGGCTGCGTGCAGTCCGCAAGTTCGAGCGGTGCAACCTCGCACT 180
QY 180 AGCGGCGCAACCAATCCCGAGGCGCGCGCAAGTTCGAGCGGTGCAACCTCGCACT 239
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QY 240 TACCTTGGCCCTATATGGAATGAGGCTGCGGCTGCGGCTGCGGCTGCGGCTGCGGCT 299
Db 241 TACCTTGGCCCTATATGGAATGAGGCTGCGGCTGCGGCTGCGGCTGCGGCTGCGGCT 300
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Db 301 CGGGGCTCTCGCCGCTGCGGCTGCGGCTGCGGCTGCGGCTGCGGCTGCGGCTGCGGCT 346

RESULT 2

US-09-878-281-147
; Sequence 147, Application US/09878281
; Publication No. US20030032005A1
; GENERAL INFORMATION:
; APPLICANT:
; TITLE OF INVENTION: New sequences of hepatitis C virus
; TITLE OF INVENTION: genotypes for diagnosis, prophylaxis and therapy.
; NUMBER OF SEQUENCES: 270
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25 (BPO)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/878,281
; FILING DATE:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/362,455
; FILING DATE:
; INFORMATION FOR SEQ ID NO: 147:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 346 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 1..346
; FEATURE:
; NAME/KEY: mat peptide
; LOCATION: 1..342
; US-09-878-281-147

Query Match 96.8%; Score 334; DB 10; Length 346;
Best Local Similarity 99.7%; Pred. No. 2.7e-91;
Matches 345; Conservative 0; Mismatches 0; Indels 1; Gaps 1;
QY 1 ATGAGCACACTTCTTAACCAACCAAGAAACCAAAAGAAACCAACCAAC-CCGGCCACAG 59
Db 1 ATGAGCACACTTCTTAACCAACCAAGAAACCAAAAGAAACCAACCAAC-CCGGCCACAG 60

QY 60 GAGGTTAAGTTCCTTAAACCAACCAAGAAACCAAAAGAAACCAACCAAC-CCGGCCACAG 119
Db 61 GAGGTTAAGTTCCTTAAACCAACCAAGAAACCAAAAGAAACCAACCAAC-CCGGCCACAG 120
QY 120 GGGCCCCAGTTGGGCTGCGTGCAGTCCGCAAGTTCGAGCGGTGCAACCTCGCACT 179
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QY 180 AGCGGCGCAACCAATCCCGAGGCGCGCGCAAGTTCGAGCGGTGCAACCTCGCACT 239
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QY 240 TACCTTGGCCCTATATGGAATGAGGCTGCGGCTGCGGCTGCGGCTGCGGCTGCGGCT 299
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RESULT 3

US-09-851-138-49
; Sequence 49, Application US/09851138
; Publication No. US20020183508A1
; GENERAL INFORMATION:
; APPLICANT: MAERTENS, GEERT
; STUYVER, LIEVEN
; TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
; AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
; AGENTS
; NUMBER OF SEQUENCES: 207
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: ARNOLD, WHITE & DURKEE
; STREET: P.O. BOX 4433
; CITY: HOUSTON
; STATE: TEXAS
; COUNTRY: USA
; ZIP: 77210-4433
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Microsoft Word 6.0 / ASCII text output
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/851,138
; FILING DATE: 09-May-2001
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/836,075
; FILING DATE: <Unknown>
; APPLICATION NUMBER: EP 94870166.9
; FILING DATE: 21 Oct 1994
; APPLICATION NUMBER: EP 95870076.7
; FILING DATE: 28 Jun 1995
; ATTORNEY/AGENT INFORMATION:
; NAME: KAMMERER, PATRICIA A.
; REGISTRATION NUMBER: 29,775
; REFERENCE/DOCKET NUMBER: INNS:004
; INFORMATION FOR SEQ ID NO: 49:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 309 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; SEQUENCE DESCRIPTION: SEQ ID NO: 49:
US-09-851-138-49

Query Match 89.6%; Score 309; DB 9; Length 309;
Best Local Similarity 100.0%; Pred. No. 9.8e-84;
Matches 309; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 120 GGGCCCCAGTTGGGTGTGCGTGCAGTGGCGAAGACTTTCGAGCGGTGCGAACCCTGCGAGT 179
 Db 121 GGGCCCCAGTTGGGTGTGCGCGCGACTCGGAAGACTTTCGAGCGGTGCGAACCCTGCGAGT 180
 QY 180 AGCGGCAACCCATCCCGAGGCGCGCCGAAACCGAGGCGAGTCTGGGCTCAGCCCGGG 239
 Db 181 AGCGGCAACCTATCCCGAGGCGCGCCGAAACCGAGGCGAGTCTGGGCGGAGCCCGGG 240
 QY 240 TACCCCTGGCCCTATATGGAATGAGGCTCGGGTGGGCGAGGCTGCTCTGTCCTCCG 299
 Db 241 TATCCCTGGCCCTTATCGCAATGAGGCTGTGGGTGGGCGAGGCTCTGTCCTCT 300
 QY 300 CGCGGCTCTCGCCGCTGTGGGCGCCCAATGATGATCCCGCGGAG 343
 Db 301 CGCGGNTCTCGGCGCTTGGGCGCCCAATGATGATCCCGCGGAG 344

RESULT 6

US-09-878-281-165
 ; Sequence 165, Application US/09878281
 ; Publication No. US20030032005A1
 ; GENERAL INFORMATION:
 ; APPLICANT:
 ; TITLE OF INVENTION: New sequences of hepatitis C virus
 ; TITLE OF INVENTION: genotypes for diagnosis, prophylaxis and therapy.
 ; NUMBER OF SEQUENCES: 270
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Floppy disk
 ; COMPUTER: IBM PC compatible
 ; OPERATING SYSTEM: PC-DOS/MS-DOS
 ; SOFTWARE: PatentIn Release #1.0, Version #1.25 (EPO)
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/09/878,281
 ; FILING DATE:
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: 08/362,455
 ; FILING DATE:
 ; INFORMATION FOR SEQ ID NO: 165:
 ; SEQUENCE CHARACTERISTICS:
 ; LENGTH: 499 base pairs
 ; TYPE: nucleic acid
 ; STRANDEDNESS: single
 ; TOPOLOGY: linear
 ; MOLECULE TYPE: DNA (genomic)
 ; HYPOTHEICAL: NO
 ; ANTI-SENSE: NO
 ; US-09-878-281-165

Query Match 75.4%; Score 260.2; DB 10; Length 499;
 Best Local Similarity 86.3%; Pred. No. 6.2e-69;
 Matches 297; Conservative 0; Mismatches 46; Indels 1; Gaps 1;
 QY 1 ATGAGCACACTTCTTAACCAACAAAGAAACCAAAAGAAACCAACCCCGCCACA-G 59
 Db 1 ATGAGCACGAATCCTTAACCTCAAGAAACCAACAAACGTAACCAACCGCCGCTATG 60
 QY 60 GAGTTAAGTTCCAGGCGCGGTGAGATGTTGGTGGAGTTTACGTGCTACCAACGAGG 119
 Db 61 GAGTTAAGTTCCAGGCGGTGAGATGTTGGTGGAGTTTACGTGTTGGCGCGCAGG 120
 QY 120 GGGCCCCAGTTGGGTGTGCGTGCAGTCTCCGAGCGGTTCGCAACCTCGCAGT 179
 Db 121 GGGCCCCAGTTGGGTGTGCGTGCAGTCTCCGAGCGGTTCGCAACCTCGCAGT 180
 QY 180 AGCGGCAACCCATCCCGAGGCGCGCCGAAACCGAGGCGAGGCTCTGGGCTCAGCCCGGG 239
 Db 181 AGCGGCAACCTATCCCGAGGCGCGCCGAAACCGAGGCGAGATCCTGGGCGGAGCCGGG 240
 QY 240 TACCCCTGGCCCTATATGGAATGAGGCTCGGGTGGGCGAGGCTGCTCTGTCCTCCG 299
 Db 241 TATCCCTGGCCCTTATCGCAATGAGGCTGTGGGTGGGCGAGGCTCTGTCCTCT 300

QY 300 CGCGGCTCTCGCCGCTGTGGGCGCCCAATGATGATCCCGCGGAG 343
 Db 301 CGCGGNTCTCGGCGCTTGGGCGCCCAATGATGATCCCGCGGAG 344

RESULT 7

US-09-194-949-5
 ; Sequence 5, Application US/09194949
 ; Publication No. US20030053987A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Merck & Co., Inc.
 ; APPLICANT: Donnelly, John J.
 ; APPLICANT: Fu, Tong-Ming
 ; APPLICANT: Liu, Margaret A.
 ; APPLICANT: Shiver, John W.
 ; TITLE OF INVENTION: SYNTHETIC HEPATITIS C GENES
 ; FILE REFERENCE: 19732YP
 ; CURRENT APPLICATION NUMBER: US/09/194,949
 ; CURRENT FILING DATE: 2000-02-17
 ; PRIOR APPLICATION NUMBER: PCT/US97/09884
 ; PRIOR FILING DATE: 1997-06-06
 ; PRIOR APPLICATION NUMBER: 60/020,494
 ; PRIOR FILING DATE: 1996-06-11
 ; PRIOR APPLICATION NUMBER: 60/033,534
 ; PRIOR FILING DATE: 1996-12-20
 ; NUMBER OF SEQ ID NOS: 25
 ; SOFTWARE: FastSeq for Windows Version 4.0
 ; SEQ ID NO 5
 ; TYPE: DNA
 ; LENGTH: 573
 ; ORGANISM: Hepatitis C Virus
 ; US-09-194-949-5

Query Match 75.2%; Score 259.4; DB 10; Length 573;
 Best Local Similarity 86.4%; Pred. No. 1.1e-68;
 Matches 298; Conservative 0; Mismatches 46; Indels 1; Gaps 1;

QY 1 ATGAGCACACTTCTTAACCAACCAAGAAACCAAAAGAAACCAACCCCGCCACA-G 59
 Db 1 ATGAGCACGAATCCTTAACCTCAAGAAACCAACAAACGTAACCAACCCCGCCACA-G 60
 QY 60 GAGTTAAGTTCCAGGCGCGGTGAGATGTTGGTGGAGTTTACGTGCTACCAACGAGG 119
 Db 61 GAGTTAAGTTCCAGGCGGTGAGATGTTGGTGGAGTTTACTTGTTCGCGGCGAGG 120
 QY 120 GGGCCCCAGTTGGGTGTGCGTGCAGTCTCCGAGCGGTTCGCAACCTCGCAGT 179
 Db 121 GGGCCCCAGTTGGGTGTGCGTGCAGTCTCCGAGCGGTTCGCAACCTCGTGA 180
 QY 180 AGCGGCAACCCATCCCGAGGCGCGCCGAAACCGAGGCGAGTCTTGGGCTCAGCCCGGG 239
 Db 181 AGCGGACGCTTATCCCAAGGCTGCGCGCCGAGGCGAGGCTCTGGGCTCAGCCCGGG 240
 QY 240 TACCCCTGGCCCTATATGGAATGAGGCTCGGGTGGGCGAGGCTGCTCTGTCCTCCG 299
 Db 241 TACCCCTGGCCCTCTATGGCAATGAGGCTTTCGCGTGGGCGAGGATGGCTCTGTCCTCC 300
 QY 300 CGCGGCTCTCGCCGCTGTGGGCGCCCAATGATGATCCCGCGGAGG 344
 Db 301 CGCGGCTCTCGCCCTAGTTGGGCGCCCACTGACCCCCCGCGTAGG 345

RESULT 8

US-09-899-046-163
 ; Sequence 163, Application US/09899046
 ; Publication No. US2003008274A1
 ; GENERAL INFORMATION:
 ; APPLICANT:
 ; TITLE OF INVENTION: New sequences of hepatitis C virus
 ; TITLE OF INVENTION: genotypes for diagnosis, prophylaxis and therapy.
 ; NUMBER OF SEQUENCES: 270
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Floppy disk

```

; APPLICATION NUMBER: 08/362,455
; FILING DATE:
; INFORMATION FOR SEQ ID NO: 163:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 499 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 1..499
; FEATURE:
; NAME/KEY: mat peptide
; LOCATION: 1..496
;
US-09-878-281-163

Query Match 73.8%; Score 254.6; DB 10; Length 499;
Best Local Similarity 85.5%; Pred. No. 3.1e-67;
Matches 295; Conservative 0; Mismatches 49; Indels 1; Gaps 1;

QY 1 ATGAGCACATCTCTTAACCAAGAAACCAAGAAACCAACACCCCGGCCACA-G 59
| | | | |
Db 1 ATGAGCACGCAATCCTTAACCTTCAAGAAACCAACAGTAACCAACACCCCGCCCATG 60
| | | | |

QY 60 GAGCTTAAGTTCCAGCGCGCGGTCAAGATCGTTGTGGTGGAGTTTACGTGTACCAACGCAGG 119
| | | | |
Db 61 GAGCTTAAGTTCCGGGTGTGGCCAGATCGTTGGCGGAGTTTACTTGTTCGCGCGCAGG 120
| | | | |

QY 120 GGCCCCCAGTTGGGTGTGCGTGCAGTGCACAGACTTCCGAGCGGTGCGCAACCTCGCAGT 179
| | | | |
Db 121 GGCCCTTAGTTGGTGTGGCGCGGACTCGAGAGACTTCGAGCGGTGCGCAACCTCGTGGG 180
| | | | |

QY 180 AGCGCGCAACCCATCCGACGAGGGCGCGGACCGAGGGGAGGTCTTGGGCTCAGCCCGGG 239
| | | | |
Db 181 AGCGCGCAACCTATCCCAAGGCGCGGATCCGAGGGCAGATCCTGGGCGCAGCCCGGG 240
| | | | |

QY 240 TACCTTTGGCCCCCTATATGGAAATGAGGGCTGCGGTGGGCGAGGGTGGCTCTCTGTCCCGG 299
| | | | |
Db 241 TATCTTTGGCCCCCTTACCGCAATGAGGGCTGTGGGTGGGCGAGGGTGGCTCTGTTCGCCCT 300
| | | | |

QY 300 CGCGGCTCTGCGCCGTCGTGGGGGCCCAAAATGACCCCGCGCGCAGG 344
| | | | |
Db 301 CGCGGCTCTGCGCGGTCTTGGGGGCCCTTAATGATCCCGCGCGGAGG 345
| | | | |

RESULT 10
US-09-899-046-193
; Sequence 193, Application US/09899046
; Publication No. US20030008274A1
; GENERAL INFORMATION:

```

TITLE OF INVENTION: New sequences of hepatitis C virus
 TITLE OF INVENTION: genotypes for diagnosis, prophylaxis and therapy.
 NUMBER OF SEQUENCES: 270
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: Patent In Release #1.0, Version #1.25 (EPO)
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/09/899,046
 FILING DATE:
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: 08/362,455
 FILING DATE:
 INFORMATION FOR SEQ ID NO: 193:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 498 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: single

```
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 1..498
; FEATURE:
; NAME/KEY: mat_peptide
; LOCATION: 1..495
US-09-899-046-193

Query Match
Best Local Similarity 73.5%; Score 253.6; DB 10; Length 498;
Matches 294; Conservative 0; Mismatches 49; Indels 1; Gaps 1;

QY 1 ATGAGCACACTTCTCTAAACCAACAAAGAAAACCAACCAACCCCGCCACA-G 59
Db 1 ATGAGCACGAATCTCTAAACCTCAAGAAAAACCAACGTAACACCAACCGCCCTATG 60

QY 60 GAGCTTAAGTTCCAGCGCGGCTCAGATCGTTGGTGGAGTTTACGTGTACACGCAG 119
Db 61 GAGCTAAAGTTCCCGCGCGGTGACAGATCGTTGGCGAGTTTACTTGTTCGCGCAG 120

QY 120 GCGCCCGAGTTGGGTGTGCGTGCAGTGCAGACTTCCGAGCGGTCCGCAACTCGCAGT 179
Db 121 GCGCCCGGTGGGTGTGCGCGACTCGGAGACTTCGGAGCGGTCCGCAACTCGTGC 180

QY 180 AGGCGCAACCCATCCCGAGGCGCGCAACCGAGGCGAGTCTTGCGGTCAAGCCCGG 239
Db 181 AGGCGTCAACCTATCCCAAGGCGCGGTCCGAGGCGAGTCTTGCGCGCAAGCCGG 240

QY 240 TACCTTGGCCCTATATGGGAATGAGGCTGCGGTGGCGAGGTTGCTCTGTCCTCC 299
Db 241 TACCTTGGCCCTCTATGGCAATGAGGCTGCGGTGGCGAGGTTGCTCTGTCCTCT 300

QY 300 CGCGGCTCTCGCCGCTCGTGGGCGCCAAATGACCCCGCGCGAG 343
Db 301 CGCGGCTCTCGGCACTCTGGGCGCCAAATGATCCCGCGCGAG 344

RESULT 11
US-09-878-281-193
; Sequence 193, Application US/09878281
; Publication No. US20030032005A1
; GENERAL INFORMATION:
; APPLICANT:
; TITLE OF INVENTION: New sequences of hepatitis C virus
; NUMBER OF SEQUENCES: 270
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25 (EPO)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/878,281
; FILING DATE:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/362,455
; FILING DATE:
; INFORMATION FOR SEQ ID NO: 193:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 498 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 1..498
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; FEATURE:
; NAME/KEY: mat_peptide
; LOCATION: 1..495
US-09-878-281-193

Query Match
Best Local Similarity 73.5%; Score 253.6; DB 10; Length 498;
Matches 294; Conservative 0; Mismatches 49; Indels 1; Gaps 1;

QY 1 ATGAGCACACTTCTCTAAACCAACAAAGAAAACCAACCAACCCCGCCACA-G 59
Db 1 ATGAGCACGAATCTCTAAACCTCAAGAAAAACCAACGTAACACCAACCGCCCTATG 60

QY 60 GAGCTTAAGTTCCAGCGCGGCTCAGATCGTTGGTGGAGTTTACGTGTACACGCAG 119
Db 61 GAGCTAAAGTTCCCGCGCGGTGACAGATCGTTGGCGAGTTTACTTGTTCGCGCAG 120

QY 120 GCGCCCGAGTTGGGTGTGCGTGCAGTGCAGACTTCCGAGCGGTCCGCAACTCGCAGT 179
Db 121 GCGCCCGGTGGGTGTGCGCGACTCGGAGACTTCGGAGCGGTCCGCAACTCGTGC 180

QY 180 AGGCGCAACCCATCCCGAGGCGCGCAACCGAGGCGAGTCTTGCGGTCAAGCCCGG 239
Db 181 AGGCGTCAACCTATCCCAAGGCGCGGTCCGAGGCGAGTCTTGCGCGCAAGCCGG 240

QY 240 TACCTTGGCCCTATATGGGAATGAGGCTGCGGTGGCGAGGTTGCTCTGTCCTCC 299
Db 241 TACCTTGGCCCTCTATGGCAATGAGGCTGCGGTGGCGAGGTTGCTCTGTCCTCT 300

QY 300 CGCGGCTCTCGCCGCTCGTGGGCGCCAAATGACCCCGCGCGAG 343
Db 301 CGCGGCTCTCGGCACTCTGGGCGCCAAATGATCCCGCGCGAG 344

RESULT 12
US-09-973-025-49
; Sequence 49, Application US/09973025
; Publication No. US20020182706A1
; GENERAL INFORMATION:
; APPLICANT: MAERTENS, GEERT
; BOSMAN, FONS
; DE MARTYNOFF, GUY
; BUYSE, MARIE-ANGE
; TITLE OF INVENTION: PURIFIED HEPATITIS C VIRUS ENVELOPE
; NUMBER OF SEQUENCES: 111
; CORRESPONDENCE ADDRESS:
; ADDRESS: NIXON & VANDERHUYE P.C.
; STREET: 1100 NORTH GLEBE ROAD
; CITY: ARLINGTON
; STATE: VIRGINIA
; COUNTRY: U.S.A.
; ZIP: 22201-4714
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: IBM PC compatible
; SOFTWARE: PC-DOS/MS-DOS
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/973,025
; FILING DATE: 10-Oct-2001
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/612,973
; FILING DATE: 11-MAR-1996
; ATTORNEY/AGENT INFORMATION:
; NAME: BYRNE, THOMAS E.
; REGISTRATION NUMBER: 32,205
; REFERENCE/DOCKET NUMBER: 1487-10
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (703) 816-4000
; TELEFAX: (703) 816-4100
; INFORMATION FOR SEQ ID NO: 49:
```

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RESULT 14
US-09-995-808-49
; Sequence 49, Application US/09995808
; Publication No. US2003009580A1
; GENERAL INFORMATION:
; APPLICANT: Immunogenetics N.V.
; TITLE OF INVENTION: Purified hepatitis C
; TITLE OF INVENTION: therapeutic use.
; FILE REFERENCE: 2351-70
; CURRENT APPLICATION NUMBER: US/09/995,808
; CURRENT FILING DATE: 2001-11-29
; NUMBER OF SEQ ID NOS: 122
; SOFTWARE: Patent 3.1
; SEQ ID NO 49
; LENGTH: 2433

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; TYPE: DNA
; ORGANISM: Hepatitis C virus
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 1..2430
; FEATURE:
; NAME/KEY: mat_peptide
; LOCATION: 1..2427
; US-09-995-860-49

Query Match
Best Local Similarity 73.3%; Score 253; DB 10; Length 2433;
Matches 294; Conservative 0; Mismatches 50; Indels 1; Gaps 1;

QY 1 ATGAGCACACTTCTTAAACACACAAAGAAAACCAAAAGAAACACCAACC-CCGGCCACAG 59
Db 1 ATGAGCACGAATCCTTAAACCTCAAGAAAAACCAAAACGTAACACCAACCGCGCCACAG 60
QY 60 GACGTTAAGTTCCAGGCGCGGTGATCGTTGGTGGAGTTTACGTGCTACCAAGCAGG 119
Db 61 GACGTCAGTTCCCGGCGGTGTCAGATCGTTGGTGGAGTTTACGTGTCGCGCAGG 120
QY 120 GGGCCCCAGTTGGTGTGGTGCAGTGCAGCAAGACTTCCGAGCGGTGCGCAACTCGCACT 179
Db 121 GGGCCCCAGTTGGTGTGGTGCAGTGCAGCAAGACTTCCGAGCGGTGCGCAACTCGTGGG 180
QY 180 AGGCGCCACCACTCCCAAGGCGCGGCGGACCGAAGCGGAGGCTCCTGGGCTCAGCCCGG 239
Db 181 AGGCGCACCACTTATCCCAAGGCTCGCGACCGGAGGCTAGGGCTCAGCCCGG 240
QY 240 TACCTTGGCCCCCTATATGGGAATGAGGCTCGCGGTGGGCGAGGCTCCTGTCCCCG 299
Db 241 TACCTTGGCCCCCTATATGGCAATGAGGCTGGGCGATGGGTGGCAGGATGCTCCTGTACCC 300
QY 300 CGCGGCTCTGCGCCCTGCTGGGCCCCAAATGACCCCCCGGCGCAGG 344
Db 301 CGCGGCTCTGCGCCTAGTTGGGCCCCCTACAGACCCCCCGCGCTAGG 345

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Search completed: February 27, 2004, 12:15:10
Job time : 263 secs

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RESULT 15
US-09-995-860-49
; Sequence 49, Application US/09995860
; Publication No. US20030118603A1
; GENERAL INFORMATION:
; APPLICANT: Innogenetics N.V.
; TITLE OF INVENTION: Purified hepatitis C virus envelope proteins for diagnostic and
; FILE OF INVENTION: therapeutic use.
; FILE REFERENCE: 2551-69
; CURRENT APPLICATION NUMBER: US/09/995,860
; CURRENT FILING DATE: 2001-11-29
; NUMBER OF SEQ ID NOS: 122
; SOFTWARE: PatentIn 3.1
; SEQ ID NO 49
; LENGTH: 2433
; TYPE: DNA
; ORGANISM: Hepatitis C virus
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 1..2430
; FEATURE:
; NAME/KEY: mat_peptide
; LOCATION: 1..2427
; US-09-995-860-49

Query Match
Best Local Similarity 73.3%; Score 253; DB 10; Length 2433;
Matches 294; Conservative 0; Mismatches 50; Indels 1; Gaps 1;

QY 1 ATGAGCACACTTCTTAAACACACAAAGAAAACCAAAAGAAACACCAACC-CCGGCCACAG 59
Db 1 ATGAGCACGAATCCTTAAACCTCAAGAAAAACCAAAACGTAACACCAACCGCGCCACAG 60
QY 60 GACGTTAAGTTCCAGGCGCGGTGATCGTTGGTGGAGTTTACGTGCTACCAAGCAGG 119

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